

RAD - RADIOLOGIC TECHNOLOGY

RAD 101 - Exploration of Radiology

Units: 0.5-1

This course is designed for those students who have an interest in becoming a radiological technologist. It is an introductory directed study course designed to give the student a greater knowledge of what a radiological technologist does and what career opportunities are open in this field. The goal of this course is to aid students in making a career choice that is right for them.

Term Offered: Spring and Fall

RAD 103 - Medical Ethics

Units: 1

This course is an introduction to the medical profession, the patient and paramedical personnel, regarding professional ethics and medical-legal responsibilities. This course will also provide the student with respect for interpersonal relationships along with moral and ethical responsibilities to increase effective communication and empathy for the patient. One (1) hour of class time per week required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Selection to the Radiological Technology Program and concurrent enrollment in all semester I courses.

Term Offered: Fall

RAD 110 - Fundamentals of Clinical Radiography I

Units: 2

A planned clinical experience is provided which gives the student the opportunity to observe and apply theoretical principles while performing radiographic procedures under supervision of the clinical staff. Progression in the program is dependent on the student demonstrating clinical competence on a specified number of competency evaluations (the number to be identified in the syllabus).

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Selection to the Radiological Technology Program and concurrent enrollment in all semester I courses.

Term Offered: Fall

RAD 112 - Patient Care and Medical Terminology

Units: 2

This course covers nursing procedures and practices relative to radiological technology with emphasis on patient handling, safety, comfort and communications as employed by the radiological technologist. Aseptic techniques and procedures used to maintain a sterile field are explained. Etymology of disease terms, nomenclature of surgical procedures and use of prefixes, suffixes, roots, combining forms and plurals of medical terms are covered. Two (2) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Selection to the Radiological Technology Program and concurrent enrollment in all semester I courses.

Term Offered: Fall

RAD 116 - Radiography I

Units: 3

Radiological positioning, related anatomy, considerations for the various problems encountered during positioning and pediatric radiography are discussed. This course covers chest, abdomen, upper extremities to include shoulder girdle and lower extremities to include hip; the study and identification of anatomical structures on X-ray film. Radiation safety measures concerning both patient and technologist are covered. Five (5) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Selection to the Radiological Technology Program and concurrent enrollment in all semester I courses.

Term Offered: Fall

RAD 118 - Radiology Physics and Circuitry

Units: 3

Course will establish a knowledge base of atomic structure and terminology, x-ray unit circuitry, radiation production, the nature and characteristics of radiation, and the photon interactions with matter.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Selection to the Radiological Technology Program and concurrent enrollment in all semester I courses.

Term Offered: Fall

RAD 124 - Radiographic Photography and Techniques

Units: 3

Fundamentals of photographic processes, darkroom equipment, darkroom chemistry, processing solutions and their functions. Types and uses of X-ray film and film holders. Manipulation of exposure factors, principles and practices in technique chart construction and appropriate radiation safety measures. Five (5) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all semester I courses.

Term Offered: Spring

RAD 125 - Clinical Radiography I

Units: 2

A planned clinical experience is provided which gives the student the opportunity to build upon previous clinical experience and apply theoretical principles while performing radiographic procedures under supervision of the clinical staff. Progression in the program is dependent on the student demonstrating clinical competence on a specified number of competency evaluations (the number to be identified in the syllabus) and demonstrating continued competence on examinations in which competence has already been demonstrated.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all semester I Radiological Technology Program and support courses.

Term Offered: Spring

RAD 126 - Radiography II

Units: 3

Advanced radiographic positioning of vertebral column and skull, demonstration and practice of these more complicated radiographic positions; topographical anatomy, pediatric radiography and film critique are integrated into the specific studies. Five (5) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all semester I courses.

Term Offered: Spring

RAD 128 - Imaging Equipment

Units: 3

This course will investigate the evolution of radiographic equipment and provide a knowledge base of routine equipment utilized in modern imaging departments.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all semester I courses.

Term Offered: Spring

RAD 198 - Special Topics Radiologic Technology

Units: 0.5-6

Various short courses and experimental classes covering a variety of subjects. The course will be a variable credit of one-half to six credits depending on the course content and number of hours required. The course may be repeated for up to six credits.

Transferability: May not transfer towards an NSHE bachelor's degree

Term Offered: AS NEEDED

RAD 220 - Clinical Radiography II

Units: 3

A planned clinical experience is provided which gives the student the opportunity to improve and perfect clinical skills while applying theoretical principles to radiographic procedures being performed under supervision of the clinical staff. Progression in the program is dependent on the student demonstrating clinical competence on a specified number of competency evaluations (the number to be identified in the syllabus) and demonstrating continued competence on examinations in which competence has already been demonstrated.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous Radiological Technology Program courses.

Term Offered: SUMMER

RAD 230 - Clinical Radiography III

Units: 3

A planned clinical experience is provided which gives the student the opportunity to incorporate the theory presented in RAD 236 and other pertinent courses and expand clinical skills while performing radiographic procedures under supervision of the clinical staff. Progression in the program is dependent on the student demonstrating clinical competence on a specified number of competency evaluations (the number to be identified in the syllabus) and demonstrating continued competence on examinations in which competence has already been demonstrated.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous Radiological Technology Program courses.

Term Offered: Fall

RAD 236 - Radiographic Contrast-Routine Exams

Units: 2

A study of different types of contrast media and how each is used to delineate specific anatomic parts or organs; common radiographic procedures using contrast media; indications; contradictions; patient preparation, care and positions are explained. Two (2) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous Radiological Technology Program courses.

Term Offered: Fall

RAD 238 - Radiation Safety and Protection

Units: 2

Accent on radiation health and safety; definitions and significance of various terms employed in radiation protection; biological effects of radiation; methods and instruments used in monitoring; national and state requirements regarding diagnostic radiation are discussed in detail. Two (2) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous Radiological Technology Program courses.

Term Offered: Fall

RAD 242 - Radiography Quality Management

Units: 1

A study of health care communications, customer service, quality improvement, team building, health care systems, accreditation issues and present and future health care trends as each relates to the Radiology department's quality assurance programs.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous program courses (second year, second semester program student) or ARRT certified radiographer.

Term Offered: Spring

RAD 244 - Diagnostic and Therapeutic Radiation

Units: 2

A survey of medical and surgical diseases employing special radiographic procedures with an introduction to the therapeutic uses of radiation, radium and isotopes; overview of medical pathology selected on the basis of relevance to radiological exams. These lectures are presented by radiologists and other specialists from the affiliated hospitals. Two (2) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous Radiological Technology Program courses.

Term Offered: Fall

RAD 245 - Clinical Radiography IV

Units: 3

A planned clinical experience is provided which gives the student increased responsibility to function more independently under direct and/or indirect supervision while performing radiographic procedures. Progression in the program is dependent on the student demonstrating clinical competence on a specified number of competency evaluations (the number to be identified in the syllabus) and demonstrating continued competence on examinations in which competence has already been demonstrated.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous Radiological Technology Program courses.

Term Offered: Spring

RAD 247 - Radiography Quality Control

Units: 1

A study of quality control methods are examined and discussed pertaining to the equipment and usage within a radiography department.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous program courses (second year, second semester program student) or ARRT certified radiographer.

Term Offered: Fall

RAD 250 - Clinical Radiography V**Units: 3**

A planned clinical experience is provided which gives the student the opportunity to demonstrate clinical skills in performing competency and continued competency evaluation examinations. These skills should include analysis, synthesis and evaluation of the examinations performed. These experiences will facilitate the transition from student technologist to graduate technologist. At the end of this course, the student will have met all radiographic competency requirements.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Successful completion of all previous Radiological Technology Program courses.

RAD 259 - Seminar in Radiography**Units: 2**

A general review and integration of all aspects of medical radiological technology is obtained through the use of simulated registry examination and the use of computer review programs. Preparation for the national A.R.R.T. examination. Two (2) hours of class time per week are required.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Current successful completion of all previous Radiological Technology Program courses or instructor approval.

Term Offered: Spring

RAD 290 - Internship in Radiologic Technology**Units: 1-6**

A course designed wherein students will apply knowledge to real on-the-job situations in a program designed by a company official and a faculty advisor to maximize learning experiences. Available to students who have completed all core and major requirements and have a 2.5 GPA. Contact the appropriate chairperson for the application, screening and required skills evaluation. Up to 12 semester credit hours may be earned on the basis of 100 hours of internship for one credit. The course may be repeated for up to 12 credits.

Transferability: May not transfer towards an NSHE bachelor's degree

Term Offered: AS NEEDED