CLINICAL RADIATION SCIENCES
LAB (CLRZ)

CLRZ 201. Radiographic Imaging and Exposure I Laboratory. 1 Hour.
Semester course; 2 laboratory hours. 1 credit. Prerequisite: CLRS 205.
Pre- or corequisite: CLRZ 201. Designed to introduce students to the
fundamentals of radiographic image production. Requires performance
of laboratory exercises to become familiar with equipment operation and
manipulate radiation exposure variables to produce quality images.

CLRZ 321. Nuclear Medicine Physics and Instrumentation Laboratory I. 1
Hour.
Semester course; 2 laboratory hours. 1 credit. Pre- or corequisite:
CLRS 303. Corequisite: CLRZ 321. Presentation of the applications and
techniques employed in the operation of nuclear medicine non-imaging
devices. Labs will emphasize the use of survey meters, dose calibrator
and scintillation counting device.

CLRZ 322. Nuclear Medicine Physics and Instrumentation Laboratory II. 1
Hour.
Semester course; 2 laboratory hours. 1 credit. Prerequisites: CLRZ 321
and CLRZ 321 with a minimum grade of C in both. Corequisite: CLRS 322.
Evaluation of applications of different imaging techniques and computer
processing utilized in nuclear medicine. Emphasizes the use of single
and multiple channel analyzers, planar and SPECT acquisition, and image
processing.

CLRZ 403. Advanced Patient Care for the Imaging Professional. 1 Hour.
Semester course; 2 laboratory hours. 1 credit. Prerequisite: CLRS 208
or permission of instructor. Pre- or corequisite: CLRS 403. This course
provides simulated experience in performing advanced patient
care techniques related to the radiation sciences. Topics include
cardiac rhythm interpretation, advanced cardiac life support, urinary
catheterization, tracheostomy care, basic laboratory skills, basic
respiratory therapy skills, pulse oximetry, IV therapy and pharmacology,
and conscious sedation.

CLRZ 405. Principles of Mammography Lab. 1 Hour.
Semester course; 2 laboratory hours. 1 credit. Prerequisites: CLRS 201
and CLRS 320, or permission of instructor. Pre- or corequisite: CLRS 405.
Provides simulated experience in performing positioning of the breast.
Students will be expected to demonstrate competence in positioning
the breast phantom for a variety of routine and specialized projections.
In addition, quality control procedures specific to mammography will be
performed.

CLRZ 461. Radiopharmacy Laboratory. 1 Hour.
Semester course; 2 laboratory hours. 1 credit. Prerequisites: CLRS 319,
CLRS 322 and CLRZ 322, all with a minimum grade of C. A simulated
radiopharmacy laboratory will focus on operation of laboratory
equipment in the compounding of radiopharmaceuticals.