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: CLRS 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: CLRS 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: CLRS 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  
acute 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.