

# Nuclear Medicine Technology Courses (RSNM)

## RSNM Courses

This is a list of courses with the subject code RSNM. For more information, see Nuclear Medicine Technology (Carver College of Medicine) in the catalog.

### **RSNM:3120 Fundamentals of Nuclear Medicine and PET** 3 s.h.

Introduction to medical specialty of nuclear medicine and molecular imaging; basic theories of radiation protection, radiation physics and nuclear medicine instrumentation, radiopharmacy, nuclear medicine and positron emission tomography (PET) clinical procedures, professional standards of nuclear medicine technologist. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:3121 Nuclear Medicine Technology Clinical Internship I** 3 s.h.

Hands-on clinical experience working with patients and performing routine nuclear medicine diagnostic imaging procedures under direct supervision of qualified clinical instructors. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:3131 Radiopharmaceuticals** 3 s.h.

Introduction to radiopharmaceuticals; emphasis on physical, chemical, and biologic properties and their clinical use; fundamental aspects of radiopharmaceuticals including characteristics, preparation, quality control, and clinical use. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:3220 Nuclear Medicine and PET Clinical Procedures** 3 s.h.

Proper execution of nuclear medicine and PET procedures from a technical point of view; published protocols and procedures specific to University of Iowa Hospitals & Clinics; routine set up, common errors, artifact identification, computer processing protocols, and patient care concerns identified for each procedure; review of human anatomy, physiology, and pathology germane to understanding and proper execution of nuclear medicine procedures. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:3221 Nuclear Medicine Technology Clinical Internship II** 3 s.h.

Progressive responsibility working with patients and performing nuclear medicine and PET clinical procedures under direct supervision of qualified clinical instructors. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:3231 Nuclear Medicine Instrumentation** 3 s.h.

Instruments used in medical imaging to generate and detect ionizing radiation (i.e., SPECT/CT and PET/CT scanners, dose calibrators, well counters, survey meters); focus on instrument quality control testing. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:3321 Nuclear Medicine Technology Clinical Internship III** 6 s.h.

Progressive responsibility working with patients and performing nuclear medicine and PET clinical procedures under direct supervision of qualified clinical instructors. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:4121 Nuclear Medicine Technology Clinical Internship IV** 4 s.h.

Progressive responsibility working with patients and performing nuclear medicine and PET clinical procedures under direct supervision of qualified clinical instructors. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:4221 Nuclear Medicine Technology Clinical Internship V** 4 s.h.

Progressive responsibility working with patients and performing nuclear medicine and PET clinical procedures under direct supervision of qualified clinical instructors. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:4222 Nuclear Medicine Technology Capstone and Certification Exam Preparation** 6 s.h.

Students in final semester of program work together to organize and deliver capstone and certification exam preparation course; review of specific topics and oral presentations by each student; preparation and distribution of detailed written outlines of exam content; series of content-specific quizzes, midterm, and final "Mock Board" exam to evaluate student learning and preparedness for taking the NMTCB and ARRT national certification exams; preparation and submission of capstone portfolios that provide evidence of scholarly and professional progress. Requirements: Nuclear Medicine Technology Program enrollment.