

# 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 Nuclear Medicine and PET Clinical Procedures I** 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:3132 Radiation Safety and Regulations in Nuclear Medicine** 1 s.h.

Continuation of RSP:3130; geared towards students enrolled in the nuclear medicine technology program.

### **RSNM:3140 Foundations in Nuclear Medicine and PET** 1 s.h.

Foundational instruction in the math and chemistry associated with radiopharmacy and instrumentation in the nuclear medicine technology profession, such as positron emission tomography (PET). Requirements: Nuclear Medicine Technology Program enrollment.

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

Proper execution of nuclear medicine and positron emission tomography (PET) procedures from a technical point of view; published protocols and procedures specific to University of Iowa Health Care; routine setup, 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. Prerequisites: RSNM:3120. 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. Prerequisites: RSNM:3121. 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:3320 Foundations in Nuclear Medicine Instrumentation** 2 s.h.

Foundations of nuclear medicine and positron emission tomography (PET) physics, computer systems, and instrumentation. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:3321 Nuclear Medicine Technology Clinical Internship III** 4 s.h.

Progressive responsibility working with patients and performing nuclear medicine and PET clinical procedures under direct supervision of qualified clinical instructors. Prerequisites: RSNM:3221. 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. Prerequisites: RSNM:3321. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:4221 Nuclear Medicine Technology Clinical Internship V** 5 s.h.

Progressive responsibility working with patients and performing nuclear medicine and PET clinical procedures under direct supervision of qualified clinical instructors. Prerequisites: RSNM:4121. Requirements: Nuclear Medicine Technology Program enrollment.

### **RSNM:4222 Nuclear Medicine Technology Capstone and Certification Exam Preparation** 5 s.h.

Students prepare to take the Nuclear Medicine Technology Certification Board (NMTCB) and American Registry of Radiologic Technologists (ARRT) national certification exams. Requirements: Nuclear Medicine Technology Program enrollment.