Nuclear Medicine Technology, BS

Requirements

The Bachelor of Science with a major in nuclear medicine technology requires a minimum of 120 s.h. of credit. Work for the degree includes a set of courses that are prerequisite to entering the major, 60 s.h. of coursework in the major, and elective coursework sufficient to complete the minimum of 120 s.h. required for graduation. Registered nuclear medicine technologists interested in earning a Bachelor of Science degree by distance education should see the Radiation Sciences RT to BS (Online) section of the catalog.

Accepted students enter the professional program, the nuclear medicine technology major, and the Carver College of Medicine the following fall semester. Students must maintain a cumulative grade-point average (GPA) of at least 2.00 and a grade of C or higher in each course required for the major (60 s.h.). Upon completing the program successfully, they are granted a Bachelor of Science degree. Graduates are eligible to apply for the nuclear medicine technology national certification examinations.

The program strongly advises students entering the university to pursue a course of study that is applicable to another major, most commonly biochemistry, biology, chemistry, or microbiology, so that if they are not admitted to the Nuclear Medicine Technology Program, they still may complete a major and receive a bachelor's degree.

Students who have declared a nuclear medicine technology interest but have not yet applied and been accepted to the Carver College of Medicine major are advised by the University of Iowa Academic Advising Center. After they have been accepted to the nuclear medicine technology program, they are advised by the Radiation Sciences Office of Student Affairs.

The Bachelor of Science with a major in nuclear medicine technology requires the following work.

Prerequisites to the Nuclear Medicine Technology Major

Students must complete the following prerequisite courses and must have earned 60 s.h. of college credit with a cumulative GPA of at least 2.50 before they may enter the nuclear medicine technology major.

Course #	Title	Hours
Rhetoric		
RHET:1030	Rhetoric	4-5
Chemistry with Laboratory		
CHEM:1110	Principles of Chemistry I	4
Anatomy with Laboratory		
One of these:		
HHP:1100 & HHP:1110	Human Anatomy - Human Anatomy Laboratory	4
HHP:3115	Anatomy for Human Physiology with Lab	5
Physiology with Laboratory		
One of these:		
HHP:1300 & HHP:1310	Fundamentals of Human Physiology - Human Physiology Laboratory	4
HHP:3500 & HHP:1310	Human Physiology - Human Physiology Laboratory	4
HHP:3550	Human Physiology with Laboratory	5
Physics		
One of these:		
PHYS:1400	Basic Physics	3-4
PHYS:1511	College Physics I	4
Psychology		
PSY:1001	Elementary Psychology	3
Mathematics		
One of these:		
MATH:1020	Elementary Functions	4
MATH:1440	Mathematics for the Biological Sciences	4
A more advanced mathematics course		
Medical Terminology		
CLSA:3750	Medical and Technical Terminology	2

Culture, Society, and the Arts

Students complete two courses for 3 s.h. each in two of these areas (total of 6 s.h.).

- Diversity and Inclusion.
- Historical Perspectives.
- International and Global Issues.
- Literary, Visual, and Performing Arts.
- Values and Culture.

See GE CLAS Core (College of Liberal Arts and Sciences) in the catalog for approved courses in the areas listed.

Coursework in the Major

Students admitted to the nuclear medicine technology major spend two years in a clinical curriculum that is organized in accordance with the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT) Accreditation Standards for Nuclear Medicine Technologist Education. They complete coursework in the following areas: radiopharmacy, radiation safety and radiobiology, patient care, nuclear medicine and positron emission tomography (PET) procedures, radiation physics and instrumentation, administration and management, medical and professional ethics, research methodology, emotional intelligence, magnetic resonance imaging (MRI), and computed tomography (CT). Practical clinical rotations focus on nuclear medicine, PET and CT imaging, nuclear medicine therapy, clinical radiopharmacy, nuclear medicine computer applications, and quantification of radioactivity in vivo and in vitro.

Students must earn a grade of C or higher in each course required for the major.

Course #	Title	Hours
RSNM:3120	Nuclear Medicine and PET Clinical Procedures I	3
RSNM:3121	Nuclear Medicine Technology Clinical Internship I	3

RSNM:3131	Radiopharmaceuticals	3
RSNM:3220	Nuclear Medicine and PET Clinical Procedures II	3
RSNM:3221	Nuclear Medicine Technology Clinical Internship II	3
RSNM:3231	Nuclear Medicine Instrumentation	3
RSNM:3321	Nuclear Medicine Technology Clinical Internship III	4
RSNM:4121	Nuclear Medicine Technology Clinical Internship IV	4
RSNM:4221	Nuclear Medicine Technology Clinical Internship V	4
RSNM:4222	Nuclear Medicine Technology Capstone and Certification Exam Preparation	6
RSCT:4100	Sectional Anatomy for Imaging Sciences	3
RSCT:4130	Computed Tomography Physical Principles and QC	4
RSNM:3140	Foundations in Nuclear Medicine and PET	1
RSNM:3320	Foundations in Nuclear Medicine Instrumentation	2
RSP:2120	Patient Care for the Radiation Sciences	3
RSP:3130	Radiation Safety and Radiobiology	2
RSP:3210	Medical Ethics and Law	2
RSP:3220	Radiation Sciences Quality Management and Health Care Administration	2
RSP:4110	Research Methodology for Radiation Sciences	3
RSRT:3220	Emotional Intelligence for the Health Care Professional	2
Total Hours		**60**