

# Nuclear Medicine Technology • Bachelor of Science

## Why Choose Nuclear Medicine Technology?

Ferris has the only University-based program in Michigan. Ferris graduates demonstrate excellent pass rates on national exams. The program is fully accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology. The program combines general education and specialized courses with clinical training.

The first six semesters are spent on the Big Rapids campus. Course work includes human anatomy and physiology, radiation and nuclear physics, and nuclear medicine theory and methods. Students spend the final two semesters in a hospital setting with emphasis on the clinical application of theory.

Graduates of this program are well prepared to work in the field of nuclear medicine, and are eligible to take the national certifying examinations for registry in nuclear medicine technology.

## Get a Great Job

In nuclear medicine, radionuclides (unstable atoms that emit radiation spontaneously) are used to diagnose and treat disease. Nuclear medicine technologists administer these radiopharmaceuticals to patients, then monitor the characteristics and functions of tissues or organs in which they localize. Abnormal areas show higher or lower concentrations of radioactivity than normal.

Nuclear medicine technologists operate gamma scintillation cameras that detect and map the radioactive material in the patient's body to create an image. Nuclear medicine technologists explain test procedures to patients. They prepare a dosage of the radiopharmaceutical and administer it by injection or other means. Technologists then produce the images for a physician to interpret. Technologists adhere to safety standards to keep radiation doses to workers and patients as low as reasonably achievable.

Employment growth is expected to be above average. Almost 8 out of 10 jobs are in hospitals. The rest are in specialized settings including imaging centers, radiopharmacies, and manufacturers. The median annual base salary of full-time nuclear medicine technologists was \$59,000 in 2006.

## Admission Requirements

Students must be admitted to the university. To be qualified to enter the professional sequence of the program high school students must have a minimum of a 3.0 GPA, a math ACT subscore of 19 and a minimum grade of "B" in chemistry. Transfer students must have a minimum GPA of 2.5 with a minimum grade of "C" in MATH 110 and in chemistry with a laboratory.

To assure students of a quality technical education in classroom/lab and clinical practice, enrollment is limited. Students who meet or will have met the program's qualification criteria by the end of Spring semester are required to apply to the program's professional sequence between January 15 and January 30 of the year prior to the August professional sequence entry. Admission will be based upon date of qualification.

## Graduation Requirements

The eight-semester sequential course of study at Ferris leads to a Bachelor of Science degree. Graduation requires a minimum of 2.0 GPA overall. Students must earn a "C" or better in major and core courses and meet all general education requirements as outlined on the General Education website.

Ferris provides you an internship in the last two semesters of the program, although due to limited space, specific clinical site locations cannot be guaranteed. If a student interrupts progression in the professional sequence of the program, re-entry cannot be guaranteed due to space limitations in laboratory and clinical placement sites.

## Required Courses

## Credit Hours

Required Courses		Credit Hours
FSUS 100	Ferris State Univ Seminar	1
HCSA 335	Supervisory Prac HC Workers	4
EHSM 315	Epidemiology - Statistics	3
CHEM 114	Intro to General Chemistry	4
BIOL 205	Human Anatomy-Physiology	5
PHYS 211	Introductory Physics 1	4
PHYS 212	Introductory Physics 2	4
MATH 116	Intermediate Algebra-Num Trig	4
ENGL 150	English 1	3
ENGL 250	English 2	3
ENGL 321	Advanced Composition	3
COMM 105 or 121 or 221		3
Electives:	(at least one at 200 level or higher)	9
Cultural Enrichment (3)		
Electives:	(at least one at 200 level or higher)	9
Social Awareness (3)		
Professional Core Courses 69 credits required		
NUCM 100	Intro to Nuclear Medicine	1
NUCM 101	Practical Math in Nuclear Med	1
NUCM 110		3
NUCM 111		1
NUCM 205		3
NUCM 206		1
NUCM 215		3
NUCM 216		1
NUCM 240		1
NUCM 320		3
NUCM 321		1
NUCM 340	Advanced Imaging Techniques	3
NUCM 350		2
NUCM 351		1
NUCM 360	Management-Leadership in NMT	3



## More Information

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American Society of Radiologic Technologists  
Customer Service Department  
15000 Central Ave., SE  
Albuquerque, NM 87123-3917  
(800) 444-2778  
www.asrt.org

or

The Society of Nuclear Medicine-Technologist Section  
1850 Samuel Morse Drive  
Reston, VA 22090  
www.snm.org

For information on certification:

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NUCM 215		3
NUCM 216		1
NUCM 240		1
NUCM 320		3
NUCM 321		1
NUCM 340	Advanced Imaging Techniques	3
NUCM 350		2
NUCM 351		1
NUCM 360	Management-Leadership in NMT	3
NUCM 380		3
NUCM 480		2
NUCM 491	Clinical Application NMT 3	10
NUCM 492		10
NUCM 499	Capstone for NMT	2
CCHS 101	Orientation-Health Care	3
CCHS 102	Safety Issues-Health Care	1
CCHS 103	CI Skills-Health Care Provider	1
MRIS 102	Orientation to Med Vocabulary	1
Semester hours required for graduation:		120