NUCLEAR MEDICINE TECHNOLOGY (NMT)

Courses

NMT 152. Radiopharmaceuticals. 0–4 Credits.
The radiopharmacological aspects of nuclear medicine technology, including radiation physics, safety, tracer principles, dosimetry, and venipuncture. Prerequisite: MLRS 141. NMT students only.

NMT 153. Nuclear Med Clin Procedures I. 3 Credits.
Principles of diagnostic imaging procedures emphasizing the nuclear medicine technologist’s role in patient care and preparation, radiopharmaceutical selection, image acquisition, and data processing and analysis. Prerequisite: NMT 152.

NMT 154. Nuclear Med Clin Procedures II. 3 Credits.
Principles and technical considerations of in vivo and in vitro nuclear medicine diagnostic and therapeutic procedures. Prerequisite: NMT 153.

NMT 155. Instrumentation I. 3 Credits.
Nuclear medicine instrumentation, with emphasis on planar imaging devices, computer, and quality control; introduction to SPECT camera systems. Prerequisite: NMT 152.

NMT 156. Instrumentation II. 3 Credits.
Advanced nuclear medicine instrumentation with emphasis on state-of-the-art imaging devices including PET/CT and SPECT/CT. Prerequisite: NMT 155.

NMT 160. Patient Care Seminar. 1 Credit.
Prepares the students of nuclear medicine technology with basic patient care techniques. NMT majors only. Co-requisites: NMT 164; NMT students only; Instructor permission.

NMT 162. Introduction to Clinical NMT. 1 Credit.
Clinical practicum designed to provide the student with an orientation to the clinical environment, with emphasis in radiation safety, patient care and communication. Prerequisite: MLRS 140. Co-requisites: MLRS 141, NMT students only.

NMT 163. Nuclear Med Clin Practicum I. 0 or 1 Credits.
Students observe and participate in Fletcher Allen Health Care’s Nuclear Medicine Department. Prerequisite: MLRS 141. Co-requisites: NMT 152, NMT 153.

NMT 164. Nuclear Med Clin Practicum II. 3 Credits.
Students participate in routine imaging procedures emphasizing patient care, positioning, and instrumentation. NMT majors only. Prerequisite: NMT 163.

NMT 174. Nuclear Cardiology. 3 Credits.
Designed to provide the student a comprehensive understanding of the theory and principles of nuclear medicine cardiac imaging. Prerequisites: NMT 152, NMT 163.

NMT 252. Senior Seminar. 2 Credits.
Course designed to consolidate, review, and enhance the principles and practice of nuclear medicine learned in previous courses through discussion and student presentations. Prerequisite: NMT 164. Co-requisite: NMT 263.

NMT 263. Adv Nuclear Med Clin Pract III. 3 Credits.
Experience in advanced clinical and pharmacological procedures. NMT majors only. Prerequisite: NMT 164.

NMT 264. Clinical Practicum IV. 14 Credits.
Full-time clinical experience at an affiliated institution. NMT majors only. Prerequisite: NMT 263.

NMT 296. Advanced Special Topics. 1-18 Credits.