NUCLEAR MEDICINE TECHNOLOGY (NMED)

NMED 1001 Introduction to Nuclear Medicine (3 Credits)
N/A
Prerequisites: Acceptance into the Nuclear Medicine Technology Program and full attendance during freshmen orientation.
Corequisite: NMED 1194
Previous: Legacy Equivalent(s): NMT* 101

NMED 1002 Nuclear Medicine Procedures I (3 Credits)
Introduces basic nuclear medicine technology procedures.
Prerequisites: Acceptance into the Nuclear Medicine Technology Program and full attendance during freshmen orientation.
Corequisite: NMED 1194
Previous: Legacy Equivalent(s): NMT* 102

NMED 1194 Clinical Practicum I (1 Credits)
Introduces the clinical setting and general nuclear medicine areas through simulated labs and hands-on training.
Prerequisites: Acceptance into the Nuclear Medicine Technology Program and full attendance during freshmen orientation.
Corequisite: NMED 1002
Previous: Legacy Equivalent(s): NMT* 111

NMED 1195 Clinical Internship I (0.5 Credits)
Students attend clinical training Monday through Friday, eight hours per day.
Prerequisites: NMED 1194
Previous: Legacy Equivalent(s): NMT* 113

NMED 1221 Physics in Nuclear Medicine (3 Credits)
Introduces the physics of nuclear medicine as a framework for the principles behind nuclear composition, energy concepts, and units of radioactive decay. Stresses radiation level calculation and understanding the process by which radiation interacts with matter.
Prerequisites: PHYS 1101
Corequisite: NMED 1294
Previous: Legacy Equivalent(s): NMT* 121

NMED 1294 Clinical Practicum II (1 Credits)
Emphasizes, through simulated labs and hands-on training, the handling and positioning of patients and the application of clinical nuclear medicine procedures.
Prerequisites: NMED 1195
Corequisite: NMED 2002
Previous: Legacy Equivalent(s): NMT* 112

NMED 1295 Clinical Internship II (3 Credits)
Students attend clinical training Monday through Friday, eight hours per day, minimum of 400 clinical hours.
Prerequisites: NMED 1294
Previous: Legacy Equivalent(s): NMT* 126

NMED 2002 Nuclear Medicine Procedures II (3 Credits)
Covers nuclear medicine procedures, emphasizing anatomy, physiology, and pathology as they pertain to oncology, infection/inflammation, skeletal, cardiovascular and respiratory systems. Students perform Internet searches and present oral reports on findings pertinent to current nuclear medicine procedures. Students also present a case study that relates to one of the organ systems being studied.
Prerequisites: NMED 1002
Corequisite: NMED 1294
Previous: Legacy Equivalent(s): NMT* 201

NMED 2003 Radio Pharmacy (3 Credits)
Covers the pharmacological basis, preparation, and quality control of radiopharmaceuticals used in nuclear medicine.
Prerequisites: CHEM 1110
Corequisite: NMED 2394
Previous: Legacy Equivalent(s): NMT* 203

NMED 2004 Nuclear Medicine Instrumentation (3 Credits)
Introduces the use of computers, and instrumentation in Nuclear Medicine Technology. Examines the process of converting radiation into electrical signals for counting and measuring by nuclear probes and cameras. Assesses and investigates Nuclear Medicine camera systems, study processing, and the physical imaging characteristics of these systems through hands-on experiments.
Prerequisites: Acceptance into the Nuclear Medicine Technology program
Corequisite: NMED 1194
Previous: Legacy Equivalent(s): NMT* 202

NMED 2010 Introduction to Computers and Nuclear Medicine Applications (3 Credits)
This course introduces the use of computers in Nuclear Medicine Technology. Concentrates on computer hardware and acquisition, data analysis, and interpretation of computer studies in Nuclear Medicine.
Prerequisites: NMED 2004 and RST 2000
Corequisite: NMED 2102

NMED 2095 Nuclear Medicine Seminar (3 Credits)
Provides the student with a review of quality control procedures, state and federal regulations, radiation safety, radiobiology, marketing, and management of nuclear medicine technology departments, as well as career and professional development skills.
Corequisite: NMED 2102
Previous: Legacy Equivalent(s): NMT* 223

NMED 2102 Nuclear Medicine Procedures III (3 Credits)
Builds on the procedures and organ systems presented in NMED 1002, including pharmacological intervention, the central nervous, endocrine, gastrointestinal, genitourinary systems, and radionuclide therapies. Students will examine case images and present findings pertinent to nuclear medicine procedures.
Prerequisites: NMED 2002
Corequisite: NMED 2494
Previous: Legacy Equivalent(s): NMT* 221

NMED 2394 Clinical Practicum III (2 Credits)
Emphasizes, through simulated labs and hands-on training, the handling and positioning of patients and the application of clinical nuclear medicine procedures.
Prerequisites: NMED 1295
Corequisite: NMED 2003
Previous: Legacy Equivalent(s): NMT* 211

NMED 2395 Clinical Internship III (0.5 Credits)
Students attend clinical training Monday through Friday, eight hours per day.
Prerequisites: NMED 2394
Previous: Legacy Equivalent(s): NMT* 216

NMED 2494 Clinical Practicum IV (2 Credits)
Introduces a sophisticated use of nuclear medicine technology and instrumentation. Students build on competencies achieved in NMED 1194, NMED 1294, and NMED 2394.
Prerequisites: NMED 2395
Corequisite: NMED 2394
Previous: Legacy Equivalent(s): NMT* 212