

NUCLEAR MEDICINE IMAGING (NMI)

NMI 100 (3 credit hours)

Introduction to Patient Care and Radiation Physics

Introduces students to foundational elements of patient care, including ergonomics, legal considerations, infection control, medical emergencies, and pharmacology. Also introduces basic physical principles of radiation physics. Lecture: 3 credits (45 contact hours).

Pre-requisite: Admission to the NMI program with MAT 150, ENG 101, BIO 137, CHE 140/CHE 145 and PHY 171 or consent of instructor.

Attributes: Technical

Components: LEC: Lecture

NMI 102 (3 credit hours)

Introduction to Clinical Procedures I

Covers imaging of organs and structures in relation to the cardiac system, gastrointestinal and genitourinary system, and skeletal system. Lecture: 3 credits (45 contact hours).

Pre-requisite: Admission to the NMI program with MAT 150, ENG 101, BIO 137, CHE 140/CHE 145 and PHY 171 or consent of instructor.

Attributes: Technical

Components: LEC: Lecture

NMI 110 (4 credit hours)

Clinic I

Introduces concepts of clinical practice with application of knowledge and principles in patient care, radiation safety, and clinical procedures for cardiac, gastrointestinal and genitourinary systems, and skeletal systems. Will include actual clinical experience in an affiliated nuclear medicine clinical setting. Clinical: 4 credits (240 contact hours).

Pre-requisite: Admission to the NMI program and successful completion of NMI 102.

Attributes: Technical

Components: CLN: Clinical

NMI 111 (3 credit hours)

Radionuclides and Pharmaceuticals

Covers radionuclides and radiopharmaceutical characteristics, calculation of radiopharmaceutical dosages, preparation and administration of radionuclides and radiopharmaceuticals. Lecture: 3 credits (45 contact hours).

Pre-requisite: Admission to the NMI program with MAT 150, ENG 101, BIO 137, CHE 140/CHE 145 and PHY 171 or consent of instructor.

Co-requisite: NMI 110.

Attributes: Technical

Components: LEC: Lecture

NMI 200 (3 credit hours)

Clinical Procedures II

Covers imaging of organs in relation to central nervous system, abscess and infection, and pulmonary system. Lecture: 3 credits (45 contact hours).

Pre-requisite: Admission to the NMI program and successful completion of NMI 110.

Co-requisite: NMI 201.

Attributes: Technical

Components: LEC: Lecture

NMI 201 (7 credit hours)

Clinic II

Covers clinical practice with application of knowledge and principles of patient care, radiation safety, and clinical procedures in regard to the central nervous system, abscess and infection, and pulmonary system. Continues clinical practice of previously covered skills. Will include actual clinical experience in an approved nuclear medicine clinical setting. Clinical: 7 credits (420 contact hours).

Pre-requisite: Admission to the NMI program and successful completion of NMI 110.

Co-requisite: NMI 200.

Attributes: Technical

Components: CLN: Clinical

NMI 202 (4 credit hours)

Nuclear Physics and Instrumentation

Includes use and quality control of the various types of systems used for scintillation imaging and computed tomography in hybrid imaging. Covers the configuration, function, and application of computers in nuclear medicine. Lecture: 4 credits (60 contact hours).

Pre-requisite: NMI 111 with a grade of C or greater or consent of instructor.

Co-requisite: NMI 200 and NMI 201.

Attributes: Technical

Components: LEC: Lecture

NMI 210 (3 credit hours)

Clinical Procedures III

Covers imaging of organs in relation to the endocrine system, oncology, and therapy. Lecture: 3 credits (45 contact hours).

Pre-requisite: Admission to the NMI program and successful completion of NMI 200.

Co-requisite: IMG 230.

Pre- or co-requisite: NMI 215.

Attributes: Technical

Components: LEC: Lecture

NMI 215 (7 credit hours)

Clinic III

Introduces concepts of clinical practice with application of knowledge and principles in patient care, radiation safety, and clinical procedures for endocrine system, oncology, and therapy. Continues clinical practice of previously covered skills. Will include actual clinical experience in an affiliated nuclear medicine clinical setting. Clinical: 7 credits (420 contact hours).

Pre-requisite: Admission to the NMMI program and successful completion of NMI 201.

Co-requisite: NMI 210 and IMG 230.

Attributes: Technical

Components: CLN: Clinical