

University of the Incarnate Word®

Bachelor of Science in Nuclear Medicine Science

Ila Faye Miller School of Nursing and Health Professions

PROGRAM OVERVIEW

The Bachelor of Science (B.S.) in Nuclear Medicine Science at the Ila Faye Miller School of Nursing and Health Professions at the University of the Incarnate Word is for students who have a strong interest in the natural sciences, mathematics, and computer technology as well as the desire for close patient contact, direct interaction with physicians and other healthcare professionals. Graduates from this degree program have several vocational options, including but not limited to, nuclear medicine technology (hospitals, clinics, research laboratories, regulatory agencies), entry into medical or graduate schools and careers in education or administration in the specialty.

The goal of the Nuclear Medicine Science program is to enable the student to confidently possess the knowledge and skills necessary to safely perform a wide variety of clinical procedures. Students will also be able to effectively communicate with patients with competent skills in: radiopharmaceutical dosage, calculation and administration, the operation of imaging devices, and operation of radiation detection monitoring devices.

The program requires the student to complete 124 credit hours for graduation. This includes 45 hours of residency, 36 advanced hours (junior/community college courses will not satisfy), 36 of the last 45 hours from UIW and 45 clock hours of community service.

QUICK FACTS

- Faculty includes mathematicians, physicists, technologists, physicians, radio pharmacists, radiation physicists, each with a special focus and integrated perspective.
- The Nuclear Medicine Science program offers an accredited curriculum leading to a Bachelor of Science degree.
- Immediately upon graduation, a student is eligible to apply for national certification/registration examinations given by the Nuclear Medicine Technology Certification Board (NMTCB) or the American Registry of Radiologic Technologists (ARRT).

ADMISSION REQUIREMENTS

Students must first be accepted for admission to the University. Applicants then must apply to the Nuclear Medicine Science program and must be accepted prior to the semester when the first nuclear medicine courses will be taken. Applications must be received by the Nuclear Medicine Science Department by February 1 for fall admission.

CONTACT

UIW Admissions
(210) 829-6005
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This publication is available in alternate format by request. To request an alternate format, please contact the UIW Office of Admissions at (210) 829-6005. 6/2021 250

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Nuclear Medicine Science

B.S. in Nuclear Medicine Science

FRESHMAN YEAR

Fall

ENGL 1311 - Composition I (3 hours)
 BIOL 2321: Anatomy and Physiology I (3 hours)
 BIOL 2121: Anatomy and Physiology I Lab (1 hour)
 MATH 1304: College Algebra (3 hours)
 DWHP 1200: Dimensions of Wellness (2 hours)
 Social Science Course (3 hours)

Total Hours: 15

Spring

ENGL 1312: Composition II (3 hours)
 BIOL 2322: Anatomy and Physiology II (3 hours)
 BIOL 2122: Anatomy and Physiology II Lab (1 hour)
 MATH 1311: Pre-Calculus (3 hours)
 CHEM 1301: Chemical Principles I (3 hours)
 RELS 1000-Level Course (3 hours)
 PEHP Physical Education Activity Course (1 hour)

Total Hours: 17

SOPHOMORE YEAR

Fall

Fine Arts Course (3 hours)
 Modern Language I (3 hours)
 MATH 2303: Introduction to Statistics (3 hours)
 PHYS 1301: General Physics I (3 hours)
 PHYS 1101: General Physics I Lab (1 hour)
 CHEM 1302: Chemical Principles II (3 hours)
 CHEM 1203: Chemical Principles II Lab (2 hours)

Total Hours: 18

Spring

Core History Course (3 hours)
 Modern Language II (3 hours)
 PHYS 1302: General Physics II (3 hours)
 PHYS 1102: General Physics II Lab (1 hour)
 PHIL 1381: Introduction to Philosophy (3 hours)
 NMED 4310: Introduction to Nuclear Medicine (3 hours)

Total Hours: 16

JUNIOR YEAR

Fall

NMED 2420: Patient Care Tech. with Lab (4 hours)
 NMED 3210: Health Assessment and Communication (2 hours)
 NMED 3320: Medical Radiation Safety (3 hours)
 NMED 4322: Radiopharmacy (3 hours)
 ENGL 2310: World Literature Studies (3 hours)
 RELS or PHIL Upper-Level Course (3 hours)

Total Hours: 18

Spring

NMED 4510: Nuclear Cardiology (5 hours)
 NMED 4545: Principles of PET and PET/CT (5 hours)
 NMED 4331: Instrumentation (3 hours)
 NMED 3310: Pathophysiology (3 hours)

Total Hours: 16

SENIOR YEAR

Fall

NMED 3305: Applications of Radionuclides (3 hours)
 NMED 4341: Radiation Biology (3 hours)
 NMED 4604: Clinical I (6 hours)

Total Hours: 12

Spring

NMED 4312: Physics of Medical Imaging (3 hours)
 NMED 4361: Registry Review (3 hours)
 NMED 4606: Clinical II (6 hours)

Total Hours: 12

124 hours needed to complete the B.S. in Nuclear Medicine Science.