BHS in Clinical and Diagnostic Sciences with Emphasis in Nuclear Medicine

Degree Program Description

Nuclear medicine (NM) technologists use radioactive compounds to produce functional, molecular images and to treat many cancers. They work in a variety of settings, including hospitals, imaging and research centers, commercial radiopharmacies, and nuclear research reactors. Nuclear medicine procedures are used to diagnose and treat diseases and to tailor treatment regimens. The NM program includes two years of pre-requisite coursework and two years of professional coursework. Students graduate with a Bachelor of Health Science (BHS) degree in Clinical and Diagnostic Sciences with an emphasis in Nuclear Medicine. Graduates of the program are eligible to challenge the nuclear medicine technology credentialing examinations administered by the Nuclear Medicine Technology Certification Board and the American Registry of Radiologic Technologists. The program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology.

Major Program Requirements

Students must complete the Program Pre-requisite courses below with a grade of C- or higher. All Major Core Requirements require a grade of C (2.0) or higher, unless otherwise noted. Students must also meet degree and University requirements (http://catalog.missouri.edu/academicdegreerequirements/universityrequirements/), including University general education (http://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements/) requirements. In addition to the degree requirements below, the Nuclear Medicine program requires an application, including an interview. Students are encouraged to work with an advisor in order to best structure the pre-requisites and prepare for the program application.

Program Pre-Requisites

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<td>MATH 1100</td>
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<tr>
<td>ENGLISH 1000</td>
<td>Writing and Rhetoric</td>
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<td>COMMUN 1200</td>
<td>Public Speaking</td>
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<td>Public Speaking - Honors</td>
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<td>BIO_SC 1010 &amp; BIO_SC 1020</td>
<td>General Principles and Concepts of Biology and General Biology Laboratory</td>
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<tr>
<td>or BIO_SC 1500</td>
<td>Introduction to Biological Systems with Laboratory Honors</td>
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<td>or BIO_SC 1500H</td>
<td>Introduction to Biological Systems with Laboratory</td>
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<tr>
<td>STAT 1200</td>
<td>Introductory Statistical Reasoning</td>
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<td>or STAT 1300</td>
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<td>Introduction to Applied Statistics</td>
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<td>PHYSCS 1210</td>
<td>College Physics I</td>
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<td>PTH_AS 2201 &amp; PTH_AS 2203</td>
<td>Human Anatomy Lecture and Human Anatomy Laboratory</td>
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<td>MPP 3202</td>
<td>Elements of Physiology</td>
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<td>CDS 2190</td>
<td>Medical Terminology</td>
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<td>2000-level or higher Approved Nuclear Medicine Elective</td>
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Major Core Requirements: 69

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<td>Orientation to Clinical Practice</td>
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<td>NUCMED 3256</td>
<td>Clinical Nuclear Medicine I</td>
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<tr>
<td>NUCMED 3263</td>
<td>Morphological Correlations in Nuclear Medicine I</td>
<td>3</td>
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<td>NUCMED 4232</td>
<td>Regulation of Radioisotopes</td>
<td>3</td>
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<td>NUCMED 4268W</td>
<td>Clinical Nuclear Medicine II - Writing Intensive</td>
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<td>Clinical Nuclear Medicine III</td>
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<td>Morphological Correlations in Nuclear Medicine II</td>
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<td>PET in Nuclear Medicine</td>
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<td>NUCMED 4327</td>
<td>Nuclear Medicine Instrumentation</td>
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<td>NUCMED 4329</td>
<td>Radiopharmaceuticals in Nuclear Medicine</td>
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<td>Nuclear Clinical Internship I</td>
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<td>Radiologic Physics *</td>
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<td>Sectional Anatomy *</td>
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<td>Computed Tomography: Physics and Procedures</td>
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<td>CDS 3460</td>
<td>Cardiovascular and Pulmonary Diagnostic Applications I</td>
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<td>Radiation Safety and Biology</td>
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<td>Cardiovascular and Pulmonary Diagnostic Applications II</td>
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<td>CDS 4480</td>
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<tr>
<td>CDS 4985</td>
<td>Healthcare Organization and Leadership</td>
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* Denotes courses in which a grade of C- is accepted.

Professional Certification

Upon completion of the program, students are eligible to take the national certifying examinations given by the Nuclear Medicine Technology Certification Board. Students may also pursue credentials offered through the American Registry of Radiologic Technologists.

Semester Plan

Below is a sample plan of study, semester by semester. A student's actual plan may vary based on course choices where options are available.

First Year

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<tr>
<th>Semester</th>
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BHS in Clinical and Diagnostic Sciences with Emphasis in Nuclear Medicine

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<td>Behavioral/Social Science</td>
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