

# **Bachelor of Science**


## **Radiologic Sciences: Nuclear Medicine Technology**

NMTs provide patient diagnostic and therapeutic services using the nuclear properties of radioactive materials. They administer radioactive materials to patients to perform patient organ imaging procedures and analysis of biological specimens.

SCHOOL OF MEDICINE HEALTH PROFESSIONS PROGRAMS  
INDIANA UNIVERSITY SYSTEM COURSE EQUIVALENTS

## BACHELOR OF SCIENCE IN NUCLEAR MEDICINE TECHNOLOGY PREREQUISITES

Advisors should always check to make sure students have completed any needed prerequisites for each of the courses listed above.

COURSES	IUB	IUPUI	IUPUC	IUE	IPFW	IUK	IUN	IUSB	IUS
<b>Written Communication (Two Courses)</b>	ENG-W 131* & 231**	ENG-W 131 & 231** or TCM 320	ENG-W 131 & 231**	ENG-W 131 & 231**	ENG-W 131 & 233**	ENG-W 131 & 231**	ENG-W 131 & 231**	ENG-W 131 & 231**	ENG-W 131* & 231**
*Check specific campus bulletin for other equivalents to ENG-W 131 **ENG-W 231/233 is the preferred course. ENG-W 132 at IUPUI (and other campuses) can be substituted. COAS-W 333 Intensive Writing at IUB (and other campuses) combined with another course will also satisfy the second written communication requirement.									
<b>Verbal Communication (One Course)</b>	CMCL-C 121 or 122	COMM-R 110 or C 180	COMM-R 110 or C 180	SPCH-S 121 or CMCL-C 122	COM 114 or 212	SPCH-S 121 or 122	SPCH-S 121 or 122	SPCH-S 121 or 122	SPCH-S 121 or 122
<b>Psychology (One Course)</b>	PSY-P 101 or 102	PSY-B 104 or 105	PSY-B 104 or 105	PSY-P 103	PSY 120	PSY-P 103	PSY-P 101	PSY-P 103	PSY-P 101
<b>Math (Two Courses)</b>	MATH M025 & M119★ or M025 & M026	MATH 153 & M119★ or 159 or M118 & M119 or 153 & 154 or 163	MATH 153 & M119★	MATH M125 & M119★	MATH 153 & 154 or 159	MATH M125 & M119★	MATH M125 & M119★	MATH M125 & M119★	MATH M125 & M119★
<b>Statistics (One Course)</b>	MATH, PSY, or SPEA K300 or equivalent	PSY B305, or STAT 301 or SPEA-K 300 or equivalent	PSY B305, or STAT 301 or equivalent	PSY K300, or STAT 301 or equivalent	PSY 201 or STAT 301 or equivalent	PSY K300, or STAT 301 or equivalent	PSY K300 or MATH K300 or equivalent	PSY P354 or MATH K310 or equivalent	MATH K300 or ECON E280
<b>Physical and Biological Sciences – Minimum of 20.0 Credit Hours</b>									
<b>Elementary Chemistry I w/lab</b>	CHEM C101/C121 or C117	CHEM C101/C121 or C105/C125	CHEM C101/C121 or C105/C125	CHEM C101/C121 or C105/C125	CHM 111 or 115	CHEM C101/C121 or C105/C125	CHEM C101/C121 or C105/C125	CHEM C101/C121 or C105/C125	CHEM C101/C121 or C105/C125
<b>Elementary Chemistry II w/lab</b>	CHEM C102/C122 or C118 or N330	CHEM C110/C115 or C106/C126	CHEM C110/C115 or C106/C126	CHEM C102/C122 or C106/C126	CHEM 112 or 116	CHEM C102/C122 or C106/C126	CHEM C102/C122 or C106/C126	CHEM C102/C122 or C106/C126	CHEM C102/C122 or C106/C126
<b>Human Anatomy w/lab</b>	ANAT A215	BIOL-N 212/213& 214/215	BIOL-N 212/213& 214/215	ANAT A215 & PHSL P215	BIOL 215 or 203	ANAT A215	PHSL P261	PHSL P261	ANAT A215
<b>Human Physiology w/lab</b>	PHSL P215	or BIOL N261 and N217	or BIOL N261 and N217	<b>OR</b> PHSL P261 & P262	BIOL 216 or 204	PHSL P215	PHSL P262	PHSL P262	PHSL P215
<b>Physics</b> 	PHYS P101 or P201	PHYS 100 or P201 or 218	PHYS P201 or 218	PHYS P201	PHYS 131, 201, 218, or 220	PHYS P100 or P201	PHYS P100 or P201	PHYS P100 or P201	PHYS P100 or P201

★ Preferred Math sequence; student can also take College Algebra/Trigonometry sequence 153/154

 Physics P101 by correspondence is also acceptable

**SEE NEXT PAGE FOR ADDITIONAL REQUIREMENTS**

**B.S. in NUCLEAR MEDICINE TECHNOLOGY PREREQUISITES (Continued)**  
INDIANA UNIVERSITY SYSTEM COURSE EQUIVALENTS

**NUCLEAR MEDICINE GENERAL EDUCATION GRADUATION REQUIREMENTS**  
(MAY BE TAKEN PRIOR TO OR DURING PROFESSIONAL PROGRAM)

Advisors should always check to make sure students have completed any needed prerequisites for each of the courses listed above.

COURSES	IUB	IUPUI	IUPUC	IUE	IPFW	IUK	IUN	IUSB	IUS
<b>Social / Behavioral Sciences</b> (One Course)	APPROVED ELECTIVE SUBJECT AREAS INCLUDE: Psychology, Sociology, and Anthropology (Preferred). Other content areas such as Economics, Minority Studies, and Political Science will be accepted upon approval (based on course content).								
<b>Humanities</b> (One Course)	APPROVED SUBJECT AREAS INCLUDE: <b>Minimum of 3.0 cr hrs.</b> Classical studies, literature, English, film studies, folklore, foreign language, history, journalism, philosophy, religion, speech communication (additional course), minority studies, visual and performing arts. Other areas can be taken with approval of the program's admissions committee.								
<b>Medical Terminology</b> <input checked="" type="checkbox"/>	CLAS C209	CLAS C209, RADI R108 or HIA M330	HIA M330	NURS A111	BIOL 105	CLAS C209	AHLT R185	AHLT R185 or NURS b105	AHLT M195

CLAS C209 may be taken through correspondence

SCHOOL OF MEDICINE HEALTH PROFESSIONS PROGRAMS  
OTHER INDIANA COLLEGE/UNIVERSITY COURSE EQUIVALENTS

## BACHELOR OF SCIENCE IN NUCLEAR MEDICINE TECHNOLOGY PREREQUISITES

Advisors should always check to make sure students have completed any needed prerequisites for each of the courses listed above.

Courses	Ball State University	Butler University	Indiana State University	Ivy Tech -Indpls	Marian College	Purdue - Calumet	Purdue - West Lafayette	Univ of Indpls	Univ of Southern Indiana	Vincennes University
<b>Written Communication</b> (Two courses)	ENG 103 & 104	EN 102 & 201	ENG 101 & 105 or 107 & 305	ENG 111 & 112 or HEW 101	ENG 101 & 115	ENGL 104 & 105	ENG 106 & upper level writing course	ENG 101 & 102	ENG 101 & 201	ENGL 101 & 102
<b>Verbal Communication</b> (One Course)	COMM 210 or 240	COMM 102	COMM 101 or 202	COM 101 or 102	COM 101	COM 114	COM 114	COMM 100	CMST 101 or 107	SPCH 143 or 148
<b>Humanities#</b> (One Course)	APPROVED SUBJECT AREAS INCLUDE: <b>Minimum of 3.0 cr hrs.</b> Classical studies, literature, English, film studies, folklore, foreign language, history, journalism, philosophy, religion, speech communication (additional course), minority studies, visual and performing arts. Other areas can be taken with approval of the program's admissions committee.									
<b>Psychology</b>	PSYSC 100	PS 101	PSY 101	PSY 101	PSY 101	PSY 120	PSY 120	PSY 120	PSY 201	PSYC 142
<b>Social / Behavioral Sciences#</b> (One Course)	APPROVED ELECTIVE SUBJECT AREAS INCLUDE: Psychology, Sociology, and Anthropology (Preferred). Other content areas such as Economics, Minority Studies, and Political Science will be accepted upon approval (based on course content).									
<b>Math</b> (Two courses)	MATHS 111 & 112 or 132★	MA 102 & 106★	MATH 115 & 131★	MAT 136 or 131 & 201★	MAT 140 & 230★	MA 153 & 154 or 159	MA 153 & 154 or 159	MATH 180 & 190★	MATH 111 & 215	MATH 102 & 115★
<b>Medical Terminology#</b>	CC 102 or NUR 101	✉	✉	✉	FNS 110	✉	HSCI 131	✉	HP 115	HIMT 110
<b>Statistics</b> (One Course)	PSYSC 241 or MAT 221 or equivalent	MA 103 or 260 or equivalent	PSY 375 or MATH 241 or equivalent	MAT 115	PSY 205 or MAT 130 or equivalent	STAT 301 or BIOL 330 or equivalent	STAT 301 or SOC 382 or equivalent	MATH 220 or equivalent	PSY 303 or MATH 241 or equivalent	MATH 110 or BMM 265
<b>Physical and Biological Sciences – Minimum of 20.0 Credit Hours</b>										
<b>Chemistry</b> (Two Courses)	CHEM 111 & 112	CH 105 & 106	CHEM 103 & 104 or 105 & 106 (all w/ lab)	CHM 111 (Plus one more course elsewhere)	CHE 151 & 152	CHM 111 & 112 or 115 & 116	CHM 111 & 112 or 115 & 116	CHEM 104 or 150	CHEM 261 & 262	CHEM/CHML 100 & 101 or 105 & 106
<b>Human Anatomy &amp; Human Physiology</b>	ANAT 201 & PHSL 210 & 211	BI 100 & 257 or 303 Or PX 311 & 315	LIFS 231/ 231L & 241/241L	ANP 101 & 102 & 201	BIO 223 & 224	BIOL 213 & 214	BIOL 203 & 204 & 302 or 301 & 302	BIOL 103 & 104	BIOL 121 & 122	LFSC/LFSL 111 & 112 or 211 & 212
<b>Physics</b>	PHYCS 100 or higher	PH 107 or 201	PHYS 101 w/ lab	PHY 101	PHY 210	PHYS 220	PHYS 218 or 220	PHYS 150	PHYS 101	PHYS/PHYL 105

★ Preferred Math sequence; student can also take College Algebra/Trigonometry sequence (5-6 credits)

# Courses can be completed either prior to or during the professional program

✉ CLAS C209 Medical Terminology is available through IU correspondence

# BACHELOR OF SCIENCE IN NUCLEAR MEDICINE TECHNOLOGY

The following is a suggested two-year plan for taking the Bachelor of Science in Nuclear Medicine Technology prerequisites. Variations of this schedule can be made.

Please check with your advisor to be sure all admission requirements are met.

	FALL	SPRING
<b>FIRST YEAR</b>	English Composition 1            3cr Algebra/Trig 1                    3cr Chemistry 1                        5cr Public Speaking <u>or Interpersonal Communication 3cr</u> Total                                 14cr	English Composition 2            3cr Chemistry 2                        5cr Algebra/Trig 2 <u>or Calculus                            3cr</u> ➤ Medical Terminology            1-2cr Total                                 12-13cr
NOTE: At this point, students who have a minimum 2.80 cumulative GPA and 2.50 math/science GPA may be eligible to submit an application for admission prior to the November 15 <sup>th</sup> deadline.		
<b>SECOND YEAR</b>	Statistics                            3cr Anatomy <u>or Human Biology 1                4-5cr</u> Introductory Psychology            3cr <u>General Elective                    4cr</u> Total                                 14-15cr	Physics                                4-5cr Physiology <u>or Human Biology 2                4-5cr</u> ➤ Humanities Elective                3cr ➤ Social Science Elective            3cr Total                                 14-16cr <b>Cumulative Total                 60cr</b>
NOTE: At this point, students accepted into the professional program must have completed a minimum of 60 credit hours including all program prerequisite courses (➤except as noted) and have a minimum 2.80 cumulative and 2.50 math/science GPA prior to the program's Summer II starting date.		

➤Social/Behavioral science electives (3 cr), Humanities elective (3 cr), and Medical Terminology (1-2 cr) can be completed either prior to or during the professional program. If these courses are not completed prior to starting the program, other electives must be completed to bring the total credit hours to 60cr.

## A BRIEF SUMMARY OF SCHOOL AND PROGRAM ADMISSION REQUIREMENTS

For a complete list, see the School of Medicine Health Professions Programs section of the IUPUI Bulletin. Completion of requirements does not guarantee admission into the program. Competitive grade point averages are generally higher than the stated minimums.

- Credit hours needed prior to entrance ..... 60 credits
- Minimum Grade Point Averages needed ..... Cumulative 2.80; Math/Science 2.50
- Minimum grade needed in prerequisite courses ..... C (2.00)
- Interview Required ..... Yes
- Observe in a Nuclear Medicine Technology Facility ..... Required prior to interview
- Additional Requirements ..... Pre-Interview Questionnaire
- Application Deadline ..... November 15th - year prior to entry

For advising assistance, please contact Health Professions Programs Office at (317) 278-4752, Medical Science Room 259 C/D, [askhpp@iupui.edu](mailto:askhpp@iupui.edu), or visit us on the web at <http://medicine.iu.edu/hpp>.

**THIS SHEET IS FOR ADVISING PURPOSES ONLY. PLEASE REFER TO SCHOOL OF MEDICINE HEALTH PROFESSIONS PROGRAMS SECTION OF THE IUPUI BULLETIN FOR ALL PROGRAM REQUIREMENTS.**

## Program Admission Information Sheet – 2009

Program: NUCLEAR MEDICINE TECHNOLOGY, B.S.

Revised 03/09

<b>Application Deadline:</b>	November 15						
<p><b>Admission Criteria:</b> Factors used in determining the rank order that <b>are not</b> part of the published criteria that might have academic advising implications. (e.g., weighted components, nature of electives, residency preference, etc.)</p>	<p><b>Observation required prior to interview</b> Selection based on the following factors:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Science/Math GPA</td> <td style="text-align: right;">35%</td> </tr> <tr> <td style="padding-left: 20px;">Cumulative GPA</td> <td style="text-align: right;">35%</td> </tr> <tr> <td style="padding-left: 20px;">Interview</td> <td style="text-align: right;">30%</td> </tr> </table> <p>Minimum Scores:  15 index points out of 30 for interview  60 index points out of 100 for total index  Preference given to applicants who are Indiana residents or who have taken a majority of their coursework at a state-supported institution in Indiana.</p> <p>The Nuclear Medicine Technology Admissions Committee reserves the right to limit the number of interviews to approximately two times the positions available in the entering class</p>	Science/Math GPA	35%	Cumulative GPA	35%	Interview	30%
Science/Math GPA	35%						
Cumulative GPA	35%						
Interview	30%						
<p><b>Component GPA</b> (if used): Explain what is included (excluded). Please be specific.</p>	Science/Math GPA - all natural, math, computer science courses; first aid, nature of cancer, and nutrition courses; all psychology courses coded S/M						
<p><b>Interview</b> When is the interview conducted? How long is the interview? How many interviewers? What is the make-up of the interview team?</p> <p>Briefly describe the interview.</p> <p>What suggestions do you have to help applicants prepare?</p> <p>Date by which an applicant should contact the program if he/she has not heard from the program about an interview date or that he/she is not qualified.</p> <p>Date by which admission decisions are made (hopefully).</p>	<p>Late January through February  ½ hour each  1 interview conducted  INTERVIEW TEAM- 2-3 person team to include Radiological Sciences [faculty member] and Nuclear Medicine clinical technologist, plus a Medical Imaging graduate, if available.</p> <p>Questions concern reasons for selecting nuclear medicine as a career, knowledge of field, future goals, outside activities, character strengths, work experiences, etc.</p> <p>Neat appearance at the interview. Type questionnaire (especially if handwriting is poor). Check grammar and spelling. Have at least one observation at a Nuclear Medicine facility. RELAX!</p> <p>Approximately mid-January</p> <p>Approximately Spring Break</p>						



## Program Fact Sheet – 2009

Program: NUCLEAR MEDICINE TECHNOLOGY, B.S.

Revised 03/09

<p><b>Professional Curriculum:</b> Describe the nature of the professional program.</p> <p>How intense is it? Are there any unique characteristics or demands?</p>	<p>Students start during Summer II at IUPUI and maintain continuous enrollment for 22 months. Students will enter as juniors.</p> <p>During their junior year, students may have program classes on Monday, Wednesday, and Friday afternoons with clinical practicum on Tuesdays, Thursdays, and Friday morning. In the senior year the students have clinical practicum on Monday, Wednesday and Friday and program classes on Tuesdays and/or Thursdays. There may also be some-early morning clinical assignments while in the program. Students may complete up to 6.0 hours of electives while in the professional program.</p>
<p><b>Credentials:</b> What is the credential required to practice?</p> <p>Are there specialty credentials?</p> <p>What is the procedure for obtaining the necessary credentials?</p>	<p>NMTCB &amp; ARRT-N are highly recommended</p> <p>Yes: PET, Cardiology (NMTCB), CT for NMTs (ARRT)</p> <p>Complete required program or education then pass appropriate credentialing exam (NMTCB &amp;/or ARRT-N)</p>
<p><b>Competitiveness:</b> How competitive is admission to the program?</p> <p>What changes do you foresee in the next year? Two years?</p>	<p>Moderate to high depending upon the applicant pool.</p> <p>Class capacity is 7. Class size is re-evaluated on a yearly basis. No change is anticipated.</p>
<p><b>Placement Statistics:</b> In Indiana? Outside Indiana?</p>	<p>The job market is fair in Indiana across the country due to present economic conditions. Graduates may need to relocate.</p>
<p><b>Salary Range:</b> Entry level?</p> <p>Five years of experience?</p>	<p>\$40,000 - \$75,000 per year full time</p> <p>\$50,000 - \$90,000+ per year full time</p>