

## Health and Kinesiology Program

### NUCLEAR MEDICINE TECHNOLOGY EMPHASIS Effective Spring 2021

PREREQUISITES* (for admission into NMT program)	CREDITS	COURSE TITLE	SEMESTER OFFERED	SEMESTER PLANNED	GRADE
WRTG 2010	3	Intermediate Writing	*check with dept		
PHYS 1010	3	The Way Things Work	*check with dept		
MATH 1050	4	College Algebra	*check with dept		
MATH 1040/1070 or QI Stats	3	Intro to Statistical Thinking	*check with dept		
BIOL 2325	4	Human Anatomy	*check with dept		
BIOL 2420	4	Human Physiology	*check with dept		
CHEM 1130 (or other approved)	5	Integrated Chemistry for Health Science	*check with dept		
COMM 1020	3	Principles of Public Speaking	*check with dept		
H EDU 2000 <sup>∞</sup>	2	First Aid and CPR	F, S, SU		
H EDU 3030 <sup>∞</sup>	3	Medical Terminology	F, S, SU		

\*Higher level prerequisites in the same content area may be acceptable. You must see an advisor to have this approved.  
<sup>∞</sup>These courses may be taken for non-credit. University Health accepts BLS certification from American Heart Assoc. Must be current at time of application.

REQUIRED NMT COURSES (taken after NMT admission)	CREDITS	COURSE TITLE	SEMESTER OFFERED	SEMESTER PLANNED/TAKEN	GRADE
H EDU 3600	3	Patient Care in Nuclear Medicine	SU		
H EDU 3610	1	Nuclear Med Clinical Edu. I	SU		
H EDU 3650	3	Nuclear Med Stats/Physics	SU		
H EDU 3900	2	Radiation Protection & Biology	F		
H EDU 3820	4	Nuclear Med Instrumentation/Computers	F		
H EDU 3800	3	Nuclear Medicine Procedures	F		
H EDU 3810	5	Nuclear Med Clinical Edu. II	F		
H EDU 4000	3	Nuclear Med Procedures II	S		
H EDU 4700	2	CT Anatomy/Procedures	S		
PHARM 7549	2	Intro to Nuclear Pharmacy	S		
H EDU 4010	5	Nuclear Med Clinical Edu. III	S		
H EDU 4050	2	Nuclear Med Tech Certification Prep	SU		
H EDU 4700	1	CT Physics/Protection	SU		
H EDU 4710	4	CT Clinical education	SU		

REQUIRED HEDU COURSES* (must take all)	CREDITS	COURSE TITLE	SEMESTER OFFERED	SEMESTER PLANNED/TAKEN	GRADE
H EDU 3050	3	Community Health Issues	F, S, SU		
H EDU 3150	3	Health and Human Relations (CW)	F, S		
H EDU 4200 (Prereq: HEDU 1010, H EDU 3050, WRTG 2010 & Full Major Status in HPE)	3	Foundations of Health Education & Promotion	F		
H EDU 4300 (Prereq: WRTG 2010, MATH 1040 OR MATH 1070 OR SOC 3112 OR FCS 3210 OR PSY 3000 & Full Major Status in HPE)	3	Introduction to Research & Assessment (QI)	F		

\*These may be taken any time prior to starting the NMT courses & must be completed within 1 semester after the NMT courses

ELECTIVE HEDU COURSES* (must take at least 3 courses)	CREDITS	COURSE TITLE	SEMESTER OFFERED	SEMESTER PLANNED/TAKEN	GRADE
H EDU 1010	3	Healthy Lifestyles	F, S, SU		
H EDU 3000	3	Human Sexuality	F, S, SU		
H EDU 3020 (Prereq: H EDU 4200, H EDU 4300 & Full Major Status in HPE)	3	Patient Education	S		
H EDU 3160	3	Stress Management	F, S, SU		
H EDU 3190	3	Death and Dying	F, S, SU		
H EDU 4350	3	Personal Resiliency	S		
ESS 4360	3	Body Composition	S		
H EDU 5300	3	Diversity and Health (DV, CW)	F, S, SU		

\*These may be taken any time prior to starting the NMT courses & must be completed within 1 semester after the NMT courses

**\*All major courses must be completed with a C- or better.**

**\*All courses used toward major requirements may NOT be more than 7 years old.**

### **ABOUT THE FIELD OF NUCLEAR MEDICINE:**

A nuclear medicine technologist is a highly specialized healthcare professional who works closely with the nuclear medicine physician. This career requires direct patient care, use of computer applications, handling of radionuclides, correct performance of procedures and successful performance in the healthcare environment. Students will learn the skills and knowledge required of a nuclear medicine technologist and graduates will be prepared to successfully complete the national exam in nuclear medicine technology that is required for certification and state licensure. Students can declare the Health Promotion and Education (H EDU) major after meeting with an advisor. Students who wish to pursue the Health Promotion and Education (H EDU) degree with an emphasis in Nuclear Medicine Technology (NMT) must complete the H EDU prerequisites and an application before being admitted into the emphasis.

For more information on the Nuclear Medicine Technology Emphasis and Careers please refer to the links below.

- Health Promotion and Education website:  
<https://health.utah.edu/health-kinesiology-recreation/health/degrees/undergraduate/nuclear-medicine-technology/>
- School of Medicine/Department of Radiology website:  
<https://medicine.utah.edu/radiology/education/technologist-education/programs/nuclear-medicine-technologist/>
- American Registry of Radiologic Technologists:  
<https://www.arrt.org/>
- Occupational Outlook Handbook:  
<https://www.bls.gov/ooh/healthcare/nuclear-medicine-technologists.htm>

### **Requirements:**

1. Strong interest in health care and researched the field of nuclear medicine
2. Have a minimum cumulative GPA of 2.7\*  
\*Avg GPA of admitted students for the 2019/20 academic year was 3.26.
3. Core science prerequisite courses taken within the last 10 years  
(Anatomy, Physiology, Chemistry, Physics, College Algebra & Statistics)
4. Have a letter grade of C- or better in all major courses and prerequisite classes
5. Must complete all prerequisites enrolled in at time of selection before starting the Nuclear Medicine Technology emphasis courses, which start the following May.
6. Graduate within one semester after finishing NMT Program Courses. If a student does not graduate within one semester of finishing the NMT required certification courses, the student may not be eligible to sit for the certification exams or practice as a Nuclear Medicine Technologist.
7. Be able to successfully pass a drug screen and background check and be able to pass the ethical eligibility requirements of the NMTCB and/or ARRT in regards to criminal convictions after being admitted. If a student has had a prior criminal conviction, they are advised to pre-apply through the NMTCB and/or ARRT to ensure that they will be eligible to complete the national exam.
8. Complete a student observation time in nuclear medicine prior to applying. Please contact the Nuclear Medicine Technology Emphasis advisor, Otto Casal, to schedule the observation.
9. Complete all application materials as described in the "Application Materials for the Nuclear Medicine Technology Emphasis" section fully and on time.

### **APPLICATION MATERIALS:**

- [Program application](#): Applications are due the second Friday each January. The program admits a maximum of 5 students per academic year.
- [Three structured references forms](#): from employers, colleagues or professors.
- Official transcripts from all attended colleges sent to the address indicated below.
- Be admitted to the University of Utah.
- Biographical essay providing an overview of yourself that includes your educational and work background, your goals and how you became interested in nuclear medicine. 1 to 1.5 pages.
- An observation experience through the nuclear medicine department at the University Hospital. Contact [otto.casal@hsc.utah.edu](mailto:otto.casal@hsc.utah.edu).
- Resume.

- \$25.00 application fee, checks made payable to the University of Utah.

\*Additionally, applicants who have patient care experience are more competitive. Some examples are: Phlebotomy, CNA, EMT, Outpatient clerk in a hospital, Cardiac Rehab work, or other hospital work or volunteer experience.

**Submit all application materials to:**

**University of Utah Health  
Department of Radiology and Imaging Sciences  
Attn: Otto Casal  
30 North 1900 East  
#1A071 Salt Lake City  
UT 84132-2140**

**(O): (801) 585-6753  
(F): (801) 581-2414  
(E): otto.casal@hsc.utah.edu**