

Radiological & Health Professions

Program Directors

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Radiological Therapy Technology

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Nuclear Medicine Technology

Nuclear Medicine and Radiation Therapy Technology

The Bachelor of Science degree program in Radiological and Health Professions is a four year program conducted in affiliation with regional hospitals and medical centers. Students may choose a major in Nuclear Medicine Technology (NMT) or Radiation Therapy Technology (RTT). These programs are for students who have no previous experience in Nuclear Medicine or Radiation Therapy and wish to prepare themselves for a career either field. To satisfy the degree requirements of these programs, students must fulfill all academic and clinical hours specified by the national and state agencies for professional certification, registration, and licensing.

This program also includes a concentration in Health Care Administration, which gives the student an in depth understanding of the health care industry.

Program Learning Goals

Nuclear Medicine Technology

Students who complete this program will:

- Be academically competent as entry-level nuclear medicine technologists.
- Be clinically competent as entry-level nuclear medicine technologists.
- Demonstrate communication skills of a competent entry-level nuclear medicine technologist.
- Develop the critical thinking skills necessary to perform independently within the nuclear medicine technologist's scope of practice.
- Develop professionalism and ethical and moral practices congruent with the profession's code of ethics and pursue lifelong learning.

Program Learning Goals

Radiation Therapy Technology

Students who complete this program will:

- Be academically competent as entry-level radiation therapists.
- Be clinically competent as entry-level radiation therapists.
- Demonstrate communication skills of a competent entry-level radiation therapist.

- Develop the critical thinking skills necessary to perform independently within the radiation therapists' scope of practice.
- Develop professionalism and ethical and moral practices congruent with the profession's code of ethics and pursue lifelong learning.

Program Requirements

Bachelor of Science in Radiological and Health Professions (Nuclear Medicine Technology)

This is a full-time program, with daytime and evening course requirements, designed for students who have no previous experience in Nuclear Medicine Technology and wish to prepare themselves for a career in this field.

First Year - Fall Semester

ENGL 110	First Year Composition	3
RELS 110	The Nature and Experience of Religion	3
BIOL 103	Introduction to Biology	3
BIOL 104		0
MATH 100	Pre-Calculus Mathematics	3
PHYS 105	Principles of Physics I	4
PHYS 195	Principles of Physics I Lab	0

First Year - Spring Semester

English Elective		3
PSYC 203	Introduction to Psychology	3
CMPT 155	Computer Applications for Life Sciences	3
MATH 230	Elementary Statistics	3
PHYS 106	Principles of Physics II	4
PHYS 196	Principles of Physics II Lab	0

Second Year - Fall Semester

BIOL 207	Anatomy and Physiology I	4
BIOL 209		0
CHEM 100	Foundations of Chemistry	3
RHS 315	Radiation Physics	3
RHS 220	US Health Care Systems	3
RHS 205	Concepts Allied Health	3

Second Year - Spring Semester

BIOL 208	Anatomy and Physiology II	4
BIOL 210		0
PHIL 201	Ethics	3
RHS 320	Radiation Detection and Protection	3

General Elective	3
Religious Studies Elective	3

Third Year - Fall Semester

RHS 317	Radiation Biology	3
RHS 331	Nuclear Medicine I	3
General Elective		3
RHS 326	Cross-Sectional Anatomy	3
KIN 209	1st Aid/Emergencies/CPR	1

Third Year - Spring Semester

RHS 332	Nuclear Medicine II	3
RHS 301	Nuclear Medicine Instrumentation	3
RHS 340	Nuclear Medicine Internship I	2
RHS 275	Patient Care Procedures	3
RHS 404	CT Imaging	3

Summer

RHS 341	Nuclear Medicine Internship II	4
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Fourth Year - Fall Semester

RHS 450	Nuclear Medicine Internship III	2
RHS 442	Nuclear Medicine III	3
RHS 420	Ethics in Healthcare	3
RHS 412	Health Research Methods	3
RHS 448	CT Procedures	3

Fourth Year - Spring Semester

RHS 451	Nuclear Medicine Internship IV	2
RHS 460	Nuclear Medicine Colloquium	1
RHS 472	Financial Management in Healthcare	3
RHS 481	Legal Aspects in Health Care	3
RELS 373	Death as a Fact of Life	3
RHS 471	Healthcare Organization and Management	3

Total Credits for Graduation: 124

Program Requirements

Bachelor of Science in Radiological and Health Professions (Radiation Therapy Technology)

This is a full-time program, with daytime and evening course requirements, designed for students who have no previous experience in Radiation Therapy Technology and wish to prepare themselves for a career in this field.

First Year - Fall Semester

ENGL 110	First Year Composition	3
RELS 110	The Nature and Experience of Religion	3
BIOL 103	Introduction to Biology	3
BIOL 104		0
MATH 100	Pre-Calculus Mathematics	3
PHYS 105	Principles of Physics I	4
PHYS 195	Principles of Physics I Lab	0

First Year - Spring Semester

English Elective		3
PSYC 203	Introduction to Psychology	3
CMPT 155	Computer Applications for Life Sciences	3
MATH 230	Elementary Statistics	3
PHYS 106	Principles of Physics II	4
PHYS 196	Principles of Physics II Lab	0

Second Year - Fall Semester

BIOL 207	Anatomy and Physiology I	4
BIOL 209		0
CHEM 100	Foundations of Chemistry	3
RHS 205	Concepts Allied Health	3
RHS 315	Radiation Physics	3
KIN 209	1st Aid/Emergencies/CPR	1

Second Year - Spring Semester

BIOL 208	Anatomy and Physiology II	4
BIOL 210		0
PHIL 201	Ethics	3
RHS 320	Radiation Detection and Protection	3
RHS 275	Patient Care Procedures	3
RHS 276	Radiation Therapy I	3

Summer

RHS 280	Radiation Therapy Internship I	4
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Third Year - Fall Semester

RHS 326	Cross-Sectional Anatomy	3
RHS 355	Radiation Therapy II	3
RHS 357	Radiation Therapy Instrumentation	3
RHS 360	Radiation Therapy Internship II	2
RHS 220	US Health Care Systems	3

Third Year - Spring Semester

RHS 356	Radiation Therapy III	3
RHS 358	Treatment Planning	3
RHS 361	Radiation Therapy Internship III	2
RHS 404	CT Imaging	3
RHS 471	Healthcare Organization and Management	3

Summer

RHS 362	Radiation Therapy Internship IV	4
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Fourth Year - Fall Semester

RHS 435	Radiation Therapy Internship V	2
RHS 317	Radiation Biology	3
RHS 420	Ethics in Healthcare	3
RHS 412	Health Research Methods	3
Religious Studies Elective		3

Fourth Year - Spring Semester

RHS 436	Radiation Therapy Internship VI	2
RHS 440	Radiation Therapy Colloquium	1
RHS 481	Legal Aspects in Health Care	3
RHS 472	Financial Management in Healthcare	3
General Elective		3
RELS 373	Death as a Fact of Life	3

Total credits for Graduation:

127

Concentration Health Care Administration

The degree programs include a concentration in healthcare administration. The courses for this concentration are:

RHS 220	US Health Care Systems	3
RHS 471	Healthcare Organization and Management	3
RHS 472	Financial Management in Healthcare	3

RHS 481	Legal Aspects in Health Care	3
RHS 420	Ethics in Healthcare	3

Program Requirements

Admission to and continuation in the Clinical Internship courses in NMT and RTT require an overall Cumulative index of 2.75 and an overall Major Academic course index of 2.75 (see list of Major Academic courses below).

Admission to the Major Academic courses, that are pre-requisites or co-requisites to clinical internships, in the NMT and RTT programs requires an overall Cumulative index of 2.75 and a Major Academic course index of 2.75 (see list of Major Academic courses that are pre-requisites or co-requisites for clinical internship courses, they are marked with an * below). If a student is unable to be admitted into the Major Academic courses because the indexes are lower than 2.75, they will be given one academic year to meet this requirement. Failure to meet this requirement within one academic year will result in dismissal from the program.

A grade of C or better is required in the Major Academic Courses (see list of Major Academic Courses below) for admission to sequential Major Academic Courses for which the course is a prerequisite. The student will be given one opportunity to repeat the course and must earn a grade of C or better before entering sequential Major Academic Courses for which the course is a prerequisite. If a student needs to repeat more than two major academic courses, they will be dismissed from the program.

A grade of C or better is required in the Major Academic courses (see list of Major Academic courses below) for admission or continuation in Clinical Internship courses. The student will be given one opportunity to repeat the course and must earn a grade of C or better before entering or continuing in Clinical Internship courses. (Please note that the Major Academic courses index must average to a 2.75 even though a few C grades are obtained in the Major Academic courses).

A grade of C or better is required in the Clinical Internship courses (see list of Clinical Internship courses below) to continue in Clinical Internship courses. The student must earn a grade of C or better the next regular time that specific Clinical Internship course is offered before continuing in Clinical Internship courses.

If a grade of F is obtained in any Clinical Internship course, continuation in the Clinical Internship courses is not allowed.

Admission to the Clinical Internship courses in NMT and RTT is based upon the Faculty and Program Director's evaluation of the student's attendance, punctuality, maturity, attitude, motivation, responsibility, interpersonal skills, attentiveness to detail, pleasantness and ability to perform the duties of a nuclear medicine or radiation therapy technologist.

Continuation in the Clinical Internship courses in NMT and RTT is based upon the successful completion of the Overall and Clinical Evaluations given the student by the Clinical Supervisor at the Clinical Affiliate and the ongoing evaluation by the Faculty and Program Director of the student's attendance, punctuality, maturity, attitude, motivation,

responsibility, interpersonal skills, attentiveness to detail, pleasantness and ability to perform the duties of a nuclear medicine or radiation therapy technologist.

Due to the serious nature of the duties performed by the student in the Clinical Internship courses, the student is granted one opportunity at completing the Clinical Internship. If the student is removed from the clinical affiliate site by the clinical supervisor for valid reasons, the student will receive an F grade for that Clinical Internship course, the student will not be re-assigned to another clinical affiliate site and will not be eligible to enroll in clinical internship courses.

The NMT major academic courses include:

RHS 205	Concepts Allied Health	3
RHS 275	Patient Care Procedures	3
RHS 301	Nuclear Medicine Instrumentation	3
RHS 315	Radiation Physics	3
RHS 317	Radiation Biology	3
RHS 320	Radiation Detection and Protection	3
RHS 326	Cross-Sectional Anatomy	3
RHS 331	Nuclear Medicine I	3
RHS 332	Nuclear Medicine II	3
RHS 404	CT Imaging	3
RHS 412	Health Research Methods	3
RHS 442	Nuclear Medicine III	3
RHS 448	CT Procedures	3
RHS 460	Nuclear Medicine Colloquium	1
BIOL 207	Anatomy and Physiology I	4
BIOL 208	Anatomy and Physiology II	4

The RTT major academic courses include:

RHS 205	Concepts Allied Health	3
RHS 275	Patient Care Procedures	3
RHS 276	Radiation Therapy I	3
RHS 315	Radiation Physics	3
RHS 317	Radiation Biology	3
RHS 320	Radiation Detection and Protection	3
RHS 326	Cross-Sectional Anatomy	3
RHS 355	Radiation Therapy II	3
RHS 356	Radiation Therapy III	3
RHS 357	Radiation Therapy Instrumentation	3
RHS 358	Treatment Planning	3
RHS 404	CT Imaging	3
RHS 412	Health Research Methods	3
RHS 440	Radiation Therapy Colloquium	1

BIOL 207	Anatomy and Physiology I	4
BIOL 208	Anatomy and Physiology II	4

The NMT clinical internship courses include:

RHS 340	Nuclear Medicine Internship I	2
RHS 341	Nuclear Medicine Internship II	4
RHS 450	Nuclear Medicine Internship III	2
RHS 451	Nuclear Medicine Internship IV	2

The RTT clinical internship courses include:

RHS 280	Radiation Therapy Internship I	4
RHS 360	Radiation Therapy Internship II	2
RHS 361	Radiation Therapy Internship III	2
RHS 362	Radiation Therapy Internship IV	4
RHS 435	Radiation Therapy Internship V	2
RHS 436	Radiation Therapy Internship VI	2

Registry Examination

Upon completion of all the requirements for the Bachelor of Science in Radiological and Health Professions, students majoring in Nuclear Medicine Technology or Radiation Therapy Technology will be eligible to sit for the written examination of the American Registry of Radiologic Technologists.

Approval for these examinations will be granted only after a student has met all responsibilities for successful completion of the program.

Certificate Program in Nuclear Medicine Technology

The certificate program is for students who already have a bachelor's degree and are looking to transition into the field of nuclear medicine technology. Students must have completed the prerequisite courses as outlined below*. The certificate program takes approximately 21 months to complete. A full-time internship is required during the summer session.

First Year - Fall Semester

RHS 315	Radiation Physics	3
RHS 205	Concepts Allied Health	3
RHS 331	Nuclear Medicine I	3
KIN 209	1st Aid/Emergencies/CPR	1

First Year - Spring Semester

RHS 320	Radiation Detection and Protection	3
RHS 332	Nuclear Medicine II	3
RHS 301	Nuclear Medicine Instrumentation	3
RHS 340	Nuclear Medicine Internship I	2

Summer Session

RHS 341	Nuclear Medicine Internship II	4
RHS 275	Patient Care Procedures	3
RHS 326	Cross-Sectional Anatomy	3

Second Year - Fall Semester

RHS 450	Nuclear Medicine Internship III	2
RHS 448	CT Procedures	3
RHS 317	Radiation Biology	3
RHS 442	Nuclear Medicine III	3

Second Year - Spring Semester

RHS 451	Nuclear Medicine Internship IV	2
RHS 460	Nuclear Medicine Colloquium	1
RHS 404	CT Imaging	3
RHS 412	Health Research Methods	3

Total Credits: 51

***Entrance Requirements and Prerequisites for the Certificate Program**

Applicant should possess a Bachelor's degree and have the following college-level prerequisites:

English	6 Credits
Human Anatomy and Physiology	6 Credits
Chemistry	3 Credits
Physics	8 Credits
Computer Science	3 Credits
Pre-Calculus	3 Credits
Statistics	3 Credits

Certificate Program in Radiation Therapy Technology

The certificate program is for students who already have a bachelor's degree and are looking to transition into the field of radiation therapy technology. Students must have completed the prerequisite courses as outlined below.* The certificate program takes approximately 29 months to complete. A full-time internship is required during both summer sessions and both evening and daytime courses are required.

First Year - Fall Semester

RHS 315	Radiation Physics	3
RHS 205	Concepts Allied Health	3
KIN 209	1st Aid/Emergencies/CPR	1

First Year - Spring Semester

RHS 275	Patient Care Procedures	3
RHS 276	Radiation Therapy I	3
RHS 320	Radiation Detection and Protection	3

Summer

RHS 280	Radiation Therapy Internship I	4
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Second Year - Fall Semester

RHS 326	Cross-Sectional Anatomy	3
RHS 355	Radiation Therapy II	3
RHS 357	Radiation Therapy Instrumentation	3
RHS 360	Radiation Therapy Internship II	2

Second Year - Spring Semester

RHS 356	Radiation Therapy III	3
RHS 358	Treatment Planning	3
RHS 361	Radiation Therapy Internship III	2
RHS 404	CT Imaging	3

Summer

RHS 362	Radiation Therapy Internship IV	4
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Third Year - Fall Semester

RHS 435	Radiation Therapy Internship V	2
RHS 436	Radiation Therapy Internship VI	2
RHS 440	Radiation Therapy Colloquium	1
RHS 317	Radiation Biology	3
RHS 412	Health Research Methods	3

Total Credits: 57

***Entrance Requirements and Prerequisites for the Certificate Program**

Applicant should possess a Bachelor's degree and have the following college-level prerequisites:

English	6 Credits
Human Anatomy and Physiology	6 Credits
Chemistry	3 Credits
Physics	8 Credits
Computer Science	3 Credits
Pre-Calculus	3 Credits
Statistics	3 Credits

Certificate Program Requirements

Admission to and continuation in the Clinical Internship courses in NMT and RTT require an overall Cumulative index of 2.75 and an overall Major Academic course index of 2.75 (see list of Major Academic courses below).

Admission to the Major Academic courses, that are pre-requisites or co-requisites to clinical internships, in the NMT and RTT programs requires an overall Cumulative index of 2.75 and a Major Academic course index of 2.75 (see list of Major Academic courses that are pre-requisites or co-requisites for clinical internship courses, they are marked with an * below). If a student is unable to be admitted into the Major Academic courses because the indexes are lower than 2.75, they will be given one academic year to meet this requirement. Failure to meet this requirement within one academic year will result in dismissal from the program.

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A grade of C or better is required in the Major Academic courses (see list of Major Academic courses below) for admission or continuation in Clinical Internship courses. The student will be given one opportunity to repeat the course and must earn a grade of C or better before entering or continuing in Clinical Internship courses. (Please note that the Major Academic courses index must average to a 2.75 even though a few C grades are obtained in the Major Academic courses).

A grade of C or better is required in the Clinical Internship courses (see list of Clinical Internship courses below) to continue in Clinical Internship courses. The student must earn a grade of C or better the next regular time that specific Clinical Internship course is offered before continuing in Clinical Internship courses.

If a grade of F is obtained in any Clinical Internship course, continuation in the Clinical Internship courses is not allowed.

Admission to the Clinical Internship courses in NMT and RTT is based upon the Faculty and Program Director's evaluation of the student's attendance, punctuality, maturity, attitude, motivation, responsibility, interpersonal skills, attentiveness to detail, pleasantness and ability to perform the duties of a nuclear medicine or radiation therapy technologist.

Continuation in the Clinical Internship courses in NMT and RTT is based upon the successful completion of the Overall and Clinical Evaluations given the student by the Clinical Supervisor at the Clinical Affiliate and the ongoing evaluation by the Faculty and Program Director of the student's attendance, punctuality, maturity, attitude, motivation, responsibility, interpersonal skills, attentiveness to detail, pleasantness and ability to perform the duties of a nuclear medicine or radiation therapy technologist.

Due to the serious nature of the duties performed by the student in the Clinical Internship courses, the student is granted one opportunity at completing the Clinical Internship. If

the student is removed from the clinical affiliate site by the clinical supervisor for valid reasons, the student will receive an F grade for that Clinical Internship course, the student will not be re-assigned to another clinical affiliate site and will not be eligible to enroll in clinical internship courses.

The NMT major academic courses include:

RHS 205	Concepts Allied Health	3
RHS 275	Patient Care Procedures	3
RHS 315	Radiation Physics	3
RHS 317	Radiation Biology	3
RHS 320	Radiation Detection and Protection	3
RHS 301	Nuclear Medicine Instrumentation	3
RHS 326	Cross-Sectional Anatomy	3
BIOL 207	Anatomy and Physiology I	4
BIOL 208	Anatomy and Physiology II	4
RHS 331	Nuclear Medicine I	3
RHS 332	Nuclear Medicine II	3
RHS 404	CT Imaging	3
RHS 412	Health Research Methods	3
RHS 442	Nuclear Medicine III	3
RHS 448	CT Procedures	3
RHS 460	Nuclear Medicine Colloquium	1

The RTT major academic courses include:

RHS 205	Concepts Allied Health	3
RHS 275	Patient Care Procedures	3
RHS 276	Radiation Therapy I	3
RHS 315	Radiation Physics	3
RHS 317	Radiation Biology	3
RHS 320	Radiation Detection and Protection	3
RHS 326	Cross-Sectional Anatomy	3
RHS 355	Radiation Therapy II	3
RHS 356	Radiation Therapy III	3
RHS 357	Radiation Therapy Instrumentation	3
RHS 358	Treatment Planning	3
RHS 404	CT Imaging	3
RHS 412	Health Research Methods	3
RHS 440	Radiation Therapy Colloquium	1
BIOL 207	Anatomy and Physiology I	4
BIOL 208	Anatomy and Physiology II	4

The NMT clinical internship courses include:

RHS 340	Nuclear Medicine Internship I	2
RHS 341	Nuclear Medicine Internship II	4
RHS 450	Nuclear Medicine Internship III	2
RHS 451	Nuclear Medicine Internship IV	2

The RTT clinical internship courses include:

RHS 280	Radiation Therapy Internship I	4
RHS 360	Radiation Therapy Internship II	2
RHS 361	Radiation Therapy Internship III	2
RHS 362	Radiation Therapy Internship IV	4
RHS 435	Radiation Therapy Internship V	2
RHS 436	Radiation Therapy Internship VI	2