

RCTC PROGRAM PLAN

RADIOGRAPHY

Associate of Applied Science

An Affiliated Program with the Mayo Clinic School of Health Sciences

I. MINNESOTA TRANSFER CURRICULUM (MnTC)/

GENERAL EDUCATION REQUIREMENTS.....28 CREDITS

GOAL 1: WRITTEN AND ORAL COMMUNICATION7 CR

ENGL 1117, Reading and Writing Critically I, 4 cr

COMM 1114, Fundamentals of Public Speaking, 3 cr **OR**

COMM 1130, Interpersonal Communication, 3 cr

GOAL 3: NATURAL SCIENCES15 CR

BIOL 1217, Anatomy and Physiology I, 4 cr

BIOL 1218, Anatomy and Physiology II, 4 cr

CHEM 1117, General, Organic, and Biological Chemistry, 4 cr

PHYS 1103, Principles of Physics, 3 cr

GOAL 4: MATHEMATICAL/LOGICAL REASONING.....3 CR

MATH 1115, College Algebra, 3 cr

GOAL 6: HUMANITIES - THE ARTS, LITERATURE AND PHILOSOPHY3 CR

PHIL 1125, Ethics, 3 cr **OR**

PHIL 1135, Bioethics, 3 cr

II. PROGRAM CORE REQUIREMENTS.....53 CREDITS

The following courses are offered through the Mayo Clinic School of Health Sciences:

RAD 3011, Foundations of Radiography, 2 cr

RAD 3101, Radiographic Procedures I, 2 cr

RAD 3102, Radiographic Procedures II, 7 cr

RAD 3111, Radiation Physics, 2 cr

RAD 3201, Introduction to Clinic Radiography, 2 cr

RAD 3202, Principles of Radiographic Exposure I, 2 cr

RAD 3301, Clinical Practicum I, 5 cr

RAD 3302, Clinical Practicum II, 9 cr

RAD 4103, Radiographic Procedures III, 2 cr

RAD 4202, Principles of Radiographic Exposure II, 1 cr

RAD 4243, Radiation Biology and Protection, 2 cr

RAD 4302, Advanced Modalities, 1 cr

RAD 4303, Clinical Practicum III, 7 cr

RAD 4403, Clinical Practicum IV, 7 cr

RAD 4501, Certification Exam Review, 2 cr

TOTAL.....81 CREDITS

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PROGRAM OUTCOMES:

Upon completion of the Radiography program at RCTC, students will achieve the following outcomes:

- Demonstrate professional behavior in the clinical setting.
- Demonstrate knowledge of professional attributes.
- Demonstrate clinical competence in producing images of diagnostic quality.
- Demonstrate safe radiation practices for patients, self and staff.
- Assess the quality of images.
- Demonstrate the ability to adapt positioning for non-routine and trauma exams.
- Demonstrate effective verbal communication skills.
- Demonstrate effective written communication skills.

ADDITIONAL NOTES:

PURPOSE: Mayo Clinic School of Health Sciences (MCSHS) now offers a rigorous 18 month Radiography Program at Mayo Clinic's campus in Rochester, Minnesota. Radiography is an exciting and challenging career involving the use of highly sophisticated equipment to create X-rays, which are anatomical images used by physicians to diagnose disease, injury or disability. Radiographers have direct patient contact in clinic and hospital settings and are valuable members of the health care team. The Radiography Program offers an exceptional educational experience by providing the high-quality didactic and clinical experiences needed to create a well-rounded, fully competent radiographer in an environment based on teamwork and mutual respect. Graduates who obtain a certificate in Radiography and Associate Degree are eligible to take the radiography certification examination administered by the American Registry of Radiologic Technologists (ARRT). Successfully passing the ARRT Primary Radiography Certification Exam will earn graduates the nationally recognized credentials of R.T.(R).

PROGRAM ENTRANCE REQUIREMENTS:

Applicants who meet the general admission requirements below will be reviewed by an admissions committee.

Applicants are most competitive when they:

- Have a GPA of at least 3.0 on a 4.0 scale, including courses in mathematics and sciences
- Have previous patient care or customer service experience
- Demonstrate genuine interest in the radiography profession
- Have completed the prerequisite coursework within 5 years of application

To be eligible for the Radiography Program, applicants must have a minimum cumulative GPA of 2.75 on a 4.0 scale. A job shadow in a general radiology department is required. This can be done at Mayo Clinic or another health care institution. Please contact the program for additional information on setting up a job shadow.

Pathways into Mayo Radiography Program

Students are required to complete college coursework prior to applying to the Mayo Clinic School of Health Sciences (MCSHS) Radiography Program. Students have two options to choose from when preparing for application to the MCSHS Radiography Program.

1. Students who already have an associate degree (or higher) can apply as a certificate student. If this is your pathway, see the Certificate option details below.

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2. Students seeking an associate or a bachelor degree while completing the MCSHS Radiography Program must apply to an affiliated institution prior to applying to the MCSHS Radiography Program. If this is your pathway, see the affiliated institution details below to determine what coursework is required prior to applying to the MCSHS Radiography Program.

Affiliated Bachelor Degree Option

Students seeking a bachelor degree at these affiliated academic institutions are eligible to apply to the MCSHS Radiography Program after completing the required coursework established by the academic institution.

- Minot State University (MSU) — Minot, North Dakota
- Mount Marty College (MMC) — Yankton, South Dakota
- St. Cloud State University (SCSU) — St. Cloud, Minnesota
- Saint Mary's University (SMU) — Winona, Minnesota
- University of Mary (UMary) — Bismarck, North Dakota
- University of Minnesota Rochester (UMR) — Rochester, Minnesota
 - Note that UMR offers a transfer option for students who complete the prerequisite coursework at another regionally accredited college or university. See the UMR website for additional information.
- University of Sioux Falls (USF) — Sioux Falls, South Dakota

Affiliated Associate Degree Option

Students seeking an associate in applied science degree at Rochester Community and Technical College (RCTC) are eligible to apply to the MCSHS Radiography Program. Students who pursue this pathway must complete 28 credits at RCTC prior to starting the MCSHS Radiography Program.

- Rochester Community and Technical College (RCTC) – Rochester, MN

Certificate option

Students may be eligible for the certificate option if they have met all of the following:

1. Earned an associate degree (or higher) before the program start date.
2. Completed all of the required program prerequisite coursework.

Prerequisite Coursework

All students are required to complete these prerequisite courses prior to starting the MCSHS Radiography Program:

- English- Minimum of one semester of college-level English composition.
- Mathematics- Minimum of one semester of college algebra; a higher-level math course also satisfies this requirement.
- Anatomy and Physiology- Minimum of two semesters of college-level anatomy and physiology with a lab component.
- Physics- Minimum of one semester of college-level physics with a lab component.
- Speech or Interpersonal Communications - Minimum of one semester of college-level speech or interpersonal communications.
- Ethics- Minimum of one semester of college-level ethics or medical ethics

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Implementation: Fall 2019