

# RCTC PROGRAM PLAN

## MAGNETIC RESONANCE IMAGING (MRI)

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 COMMUNICATION.....7 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 SCIENCES.....15 CR**

BIOL 1217, Anatomy and Physiology I, 4 cr

BIOL 1218, Anatomy and Physiology I, 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 PHILOSOPHY.....3 CR**

**RECOMMENDED:**

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

PHIL 1135, Bioethics, 3 cr

### II. PROGRAM CORE REQUIREMENTS.....35 CREDITS

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

MRI 2201, MRI Physics I, 2 cr

MRI 2202, MRI Physics II, 2 cr

MRI 2230, Introduction to Clinical Magnetic Resonance Imaging, 2 cr

MRI 2270, MRI Safety, 3 cr

MRI 2301, MRI Procedures I, 4 cr

MRI 2302, MRI Procedures II, 4 cr

MRI 2315, Medical Informatics, 1 cr

MRI 2360, Fundamentals of Imaging Sciences and Health Care, 1 cr

MRI 2450, Advanced Imaging Procedures, 1 cr

MRI 2501, Clinical Practicum I, 5 cr

MRI 2502, Clinical Practicum II, 8 cr

MRI 2570, MRI Registry Review, 2 cr

**TOTAL.....63 CREDITS**

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## PROGRAM OUTCOMES:

Upon completion of the MRI 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.
- Assess the quality of images.
- Demonstrate effective verbal communication skills.
- Demonstrate effective written communication skills.

## ADDITIONAL INFORMATION:

Magnetic Resonance Imaging (MRI) is an advancing medical imaging field that uses powerful magnetic fields and radio waves to create highly detailed images of the human body. MR technologists are valued members of the health care team and have direct patient contact in clinic and hospital settings. MR technologists are vital in the creation of images for diagnosis and treatment of a variety of medical conditions. They are responsible for positioning the patient, selecting appropriate equipment and setting technical parameters to accurately display anatomy and pathology. In addition to technical expertise, MR technologists also possess excellent communication skills as they are responsible for patient education, instruction and safety.

The MRI Program is designed to provide high-quality didactic and clinical education experiences for students to acquire the knowledge, skills and attitudes necessary to be well-rounded, fully competent MR technologists.

Graduates who obtain a certificate in Magnetic Resonance Imaging and Associate Degree are eligible to take the Magnetic Resonance Imaging certification examination administered by the American Registry of Radiologic Technologists (ARRT). Successfully passing the ARRT Primary MRI Certification Exam will earn graduates the nationally recognized credentials of R.T.(MR).

Revised: 03/05/2020

Implementation: Fall 2020