March 31, 2020

**Rochester Community and Technical College Magnetic Resonance Imaging (MRI) - NOI**

Start Term: 20213 (Fall 2020)
End Term: 99999 (No End)

Program Details

**NEW PROGRAM (NOTICE OF INTENT)**

This application has a 20 day review and comment period

**COLLEGE/UNIVERSITY**

- Rochester Community and Technical College

**GENERAL INFORMATION**

**PROGRAM TYPE**

Consortial: courses are offered by two or more accredited institutions using a formal agreement

**NAME/TITLE**

Magnetic Resonance Imaging (MRI) - NOI

**# OF CREDITS (whole number)**

63.00

**AWARD**

Associate of applied science degree

**DELIVERY MODE**

Land plus: face-to-face where some online courses may be available or required

**CATALOG DESCRIPTION**

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.

*Minnesota State is an affirmative action, equal opportunity employer and educator.*
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).

Program:
28 MnTC credits from RCTC and 35 program core requirements from MCSHS. All courses are pre-existing at RCTC. No new courses or facilities needed.

**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

PROGRAM DUPLICATION

Area from which 80% of students are likely to attend (counties/regions).

PROGRAM SERVICE AREA
Southeast Minnesota.

NAME MNSCU SCHOOLS THAT OFFER A SIMILAR PROGRAM
N/A. Students will need to apply to the Mayo Clinic School of Health Sciences (MCSHS).

REGIONAL DISCUSSION?
No

IS THIS A CLOSED ENROLLMENT PROGRAM
No

System Capacity
RCTC will work with MCSHS to promote this program. MCSHS also plans to promote this program internally.

Recommendation
Is the program unnecessarily duplicative?
No

Evidence LMI Need
In 2016, Minnesota had 710 MRI technologist job with a projected growth to 890 jobs in 2026. This is a 10-year job growth of 26%. The state also has an annual projection of 60 job openings per year. The median annual wage for MRI technologists is $77,780. MCSHS has developed an 18-month MRI program. They wish to partner with RCTC to offer the general education courses. MCSHS will offer the MRI courses. Minnesota DEED data projects a 26% employment increase for MRI technologist in MN over the next ten years. Over 60 statewide openings are expected per year.

SOC Code #1
29-2035

Summary

Other Program Properties

Locations
# Address
1. Rochester Community and Technical College
   851 30th Ave. S.E.
Emphases There are no emphases assigned to this program.

To provide comments and feedback submit an email to: AcademicPrograms@minnstate.edu by April 16, 2020