

# RCTC PROGRAM PLAN

## HISTOLOGY TECHNICIAN

Associate of Science

### I. MINNESOTA TRANSFER CURRICULUM (MnTC)/

#### **GENERAL EDUCATION REQUIREMENTS.....30 CREDITS**

*Complete at least 30 credits in courses from the Minnesota Transfer Curriculum (MnTC), including all courses listed. You must complete at least one course in six of the ten goal areas.*

#### **GOAL 1: WRITTEN AND ORAL COMMUNICATION .....7 CR**

ENGL 1109, Introduction to Professional and Technical Communication, 3 cr

ENGL 1117, Reading and Writing Critically I, 4 cr

#### **GOAL 3: NATURAL SCIENCES .....12 CR**

BIOL 1217, Anatomy and Physiology I, 4 cr

BIOL 1218, Anatomy and Physiology II, 4 cr

CHEM 1117, General, Organic and Biological Chemistry I, 4 cr **OR**

CHEM 1127, Chemical Principles I, 4 cr

#### **GOAL 4: MATHEMATICS/LOGICAL REASONING.....3 CR**

MATH 1115, College Algebra, 3 cr

#### **GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORIAL SCIENCES .....4 CR**

PSYC 2618, General Psychology, 4 cr

#### **GOAL 6: HUMANITIES - THE ARTS, LITERATURE AND PHILOSOPHY .....3 CR**

PHIL 1125, Bioethics, 3 cr **OR**

PHIL 1135, Ethics, 3 cr (**Recommended**)

#### **MnTC General Education Electives.....1 CR**

Credits chosen from courses meeting MnTC competencies in Goal areas 1-10

### **II. PROGRAM CORE REQUIREMENTS.....30 CREDITS**

HCOP 1610, Medical Terminology: Body Systems and Diseases, 2 cr

CHEM 1118, General, Organic and Biological Chemistry II, 4 cr **OR**

CHEM 1128, Chemical Principles, 4 cr

CONSORTIUM, Histology Tech core curriculum transfer, 24 cr

#### **TOTAL .....60 CREDITS**

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## PROGRAM OUTCOMES:

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

- Demonstrate an understanding of the foundational principles of histotechnology.
- Describe the principles of electron microscopy, enzyme histochemistry, immunohistochemistry, and cytology preparation.
- Identify tissue structures and related pathologic diseases.
- Analyze tissue structures for quality based on histological technique and staining method.
- Demonstrate proficiency in the critical reading and assessment of literature.
- Discuss the need for continued professional growth and development.
- Demonstrate the ability to operate the tools and instrumentation in histotechnology.
- Demonstrate entry level competency in all routine histological procedures.
- Demonstrate efficiency and timely completion of assigned responsibilities.
- Practice the principles of safety as a histology technician within the laboratory setting.
- Perform quality control measures to improve histologic results.
- Troubleshoot errors in histotechnology through systematic reasoning and problem resolution.
- Establish effective working relationships as a histology technician with other health care professionals.
- Practice professional and ethical conduct as a histology technician in the laboratory setting.
- Foster a culture of inclusivity, diversity, equity, and mutual respect.
- Apply interpersonal communication skills sufficient to meet the needs of the patients and members of the healthcare team.
- Engage in a service initiative to promote the civic responsibility of healthcare workers in society.

## ADDITIONAL INFORMATION:

Students are admitted into this program through the Mayo Clinic School of Health Sciences Histology Technician program. Admission is competitive. Students who pursue this pathway must complete 36 credits at RCTC prior to starting the MCSHS Histology Technician program.

Admission and application requirements can be found:

<https://college.mayo.edu/academics/health-sciences-education/histology-technician-program-arizona-florida-and-minnesota/how-to-apply/>

Revised: 4/11/2024

Implementation: Fall 2025