# RCTC PROGRAM PLAN

### **SCIENCE FOUNDATIONS**

Associate in Science

I	MINNESOTA TRANSFER CURRICULUM (MNTC)/ GENERAL EDUCATION REQUIREMENTS35-36 CREDITS	
	Complete at least 30 credits in courses from the Minnesota Transfer Curriculum (MnTC), including all cours listed. You must complete at least one course in six of the ten goal areas. Consult with an advisor to see which MATH and elective courses are required by your transfer institution.	es
	GOAL 1: WRITTEN AND ORAL COMMUNICATION	
	<b>GOAL 3: NATURAL SCIENCES</b>	
	GOAL 4: MATHEMATICS/LOGICAL REASONING	
	GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORIAL SCIENCES	
	GOAL 6: HUMANITIES - THE ARTS, LITERATURE AND PHILOSOPHY	
	GOAL 10: PEOPLE AND THE ENVIRONMENT4 CR BIOL 1220, General Biology I, 4 cr (also meets Goal 3)	
II.	PROGRAM CORE REQUIREMENTS	S





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III. Electives.....

BIOL 1211, Principles of Nutrition, 3 cr

BIOL 1217, Anatomy & Physiology I, 4 cr

BIOL 1218, Anatomy & Physiology II, 4 cr

BIOL 2000, Ecology, 4 cr

BIOL 2021, General Microbiology, 4 cr

BIOL 2200, General Zoology, 4 cr

BIOL 2300, Genetics, 4 cr

CHEM 2800, Biochemistry, 3 cr

CHEM 2297, Chemistry Research, 1 cr

ESCI 1114, Minnesota Rocks and Waters with Lab, 4 cr

PHYS 1117, Introductory Physics I, 5 cr OR

PHYS 1127, Classical Physics I, 5 cr

PHYS 1118, Introductory Physics II, 5 cr OR

PHYS 1128, Classical Physics II, 5 cr

Additional options may be more appropriate for the desired transfer program.

#### PROGRAM OUTCOMES:

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

- Demonstrate basic knowledge and understanding of fundamental scientific principles.
- Apply skills in analytical thinking and problem solving to experimental and theoretical
- Demonstrate skills in laboratory operations including making measurements, preparing solutions, using a microscope, operating instrumentation, designing experiments, preparing samples for various analyses.
- Provide clear and compelling data and analysis in oral and written communications including papers, posters, or presentations.
- Work both independently and collaboratively in the classroom and in the laboratory.
- Exhibit growth in academic performance and personal and professional responsibility.

### **ADDITIONAL NOTES:**

This two-year degree includes basic science curriculum required for admission by various health science professional schools, or science transfer programs. Check with the school(s) of your choice to ensure that their specific requirements are fulfilled.

Revised: 03/05/2020 Implementation: Fall 2021



