## RCTC PROGRAM PLAN

## **BIOINFORMATICS FOUNDATIONS**

Associate of Science

1.	MINNESOTA TRANSFER CURRICULUM (MNTC)/ GENERAL EDUCATION REQUIREMENTS
	GOAL 1: WRITTEN AND ORAL COMMUNICATION
	GOAL 3: NATURAL SCIENCES
	<b>GOAL 4: MATHEMATICS/LOGICAL REASONING</b>
	<b>GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORIAL SCIENCES</b>
	GOAL 6: HUMANITIES - THE ARTS, LITERATURE AND PHILOSOPHY
	Recommended: PHIL 1150, Computing and AI Ethics, 3 cr
	MnTC ELECTIVES:2 CR
II.	PROGRAM CORE REQUIREMENTS
III.	OPEN ELECTIVES
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	OTAL60 CREDITS





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## **PROGRAM OUTCOMES:**

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

- Apply mathematical foundations, algorithmic principles, and computer science concepts to analyze and design software solutions.
- Design, implement and validate software using modern Integrated Development Environments.
- Apply current design techniques including the effective application of data structures, recursion, and object-oriented technologies for software solutions.
- Evaluate the efficiency of software algorithm using Big O notation.
- Develop logical resonating and problem-solving skills.
- Work as part of a team to analyze, design and implement software solutions.

Revised: 03/20/2025 Implementation: Fall 2025



