# RCTC PROGRAM PLAN

## BIOLOGY TRANSFER PATHWAY

Associate of Science

**I. MINNESOTA TRANSFER CURRICULUM (MnTC)/ GENERAL EDUCATION REQUIREMENTS.....31-35 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. Consult with an advisor to see which MATH course is required by your transfer institution.*

**GOAL 1: WRITTEN AND ORAL COMMUNICATION .....11 CR**

COMM 1114, Fundamentals of Public Speaking, 3 cr
ENGL 1117, Reading and Writing Critically I, 4 cr
ENGL 1118, Reading and Writing Critically II, 4 cr

**GOAL 3: NATURAL SCIENCES .....8 CR**

BIOL 1220, General Biology I, 4 cr (also meets Goal 10)
CHEM 1127, Chemical Principles I, 4 cr

**GOAL 4: MATHEMATICS/LOGICAL REASONING.....6-10 CR**

**Select two courses from the list below.**
MATH 1115, College Algebra, 3 cr
MATH 1117, Pre-calculus, 4 cr
MATH 1119, Applied Calculus, 3 cr
MATH 1127, Calculus I, 5 cr
MATH 1128, Calculus II, 4 cr

**GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORIAL SCIENCES .....3 CR**

Credits from MnTC Goal 5

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

Credits from MnTC Goal 6

**II. PROGRAM REQUIREMENTS.....12 CREDITS**

BIOL 1230, General Biology II, 4 cr
BIOL 2300, Genetics, 4 cr
CHEM 1128, Chemical Principles II, 4 cr

**III. RESTRICTED BIOLOGY ELECTIVES.....4 CREDITS**

**Select one course (4 credits) from the list below.**
BIOL 2000, Ecology, 4 cr
BIOL 2021, Microbiology, 4 cr

**IV. UNRESTRICTED ELECTIVES.....9-13 CREDITS**

*Consult with an advisor to determine course selections, which are appropriated for your transfer institution.*

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

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**PROGRAM OUTCOMES:**

Upon completion of the Biology Transfer Pathway program at RCTC, students will achieve the following outcomes:

- Explain the scientific method and demonstrate the ability to apply all aspects of it during scientific investigation.
- Demonstrate an ability to understand and apply biological concepts and processes.
- Show proper use of instruments and techniques in the laboratory.
- Demonstrate an ability to work independently and collaboratively.
- Exhibit responsible behavior and engagement as a student in biology.

**ADDITIONAL NOTES:**

PURPOSE: The Biology Transfer Pathway AS offers students a powerful option: the opportunity to complete an Associate of Science degree with course credits that directly transfer to designated Biology bachelor's degree programs at Minnesota State universities. The curriculum has been specifically designed so that students completing this pathway degree and transferring to one of the seven Minnesota State universities enter the university with junior-year status. All courses in the Transfer Pathway associate degree will directly transfer and apply to the designated bachelor's degree programs in a related field. Universities within the Minnesota State system include Bemidji State University; Metropolitan State University; Minnesota State University, Mankato; Minnesota State University, Moorhead; Southwest Minnesota State University; St. Cloud State University; and Winona State University.

This transfer pathway degree will transfer to the following designated baccalaureate degree majors:

At Bemidji State University:
- Biology, BS
- Biology, BA

At Metropolitan State University:
- Biology, BA

At Minnesota State University, Mankato:
- Biology, BS

At Minnesota State University, Moorhead:
- Biology, BA
- Ecology, BA

At Southwest Minnesota State University:
- Biology, BA

At St. Cloud State University:
- Biology, BA

At Winona State University:
- Biology - Allied Health, BS
- Biology - Cell & Molecular, BS
- Biology - Ecology, BS
- Biology - Environmental Science, BS

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