

RCTC PROGRAM PLAN

ENVIRONMENTAL SCIENCE

Associate of Science

I. MINNESOTA TRANSFER CURRICULUM (MnTC)/

GENERAL EDUCATION REQUIREMENTS.....31 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 COMMUNICATION11 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 SCIENCES7 CR

BIOL 1102, Plant Biology, 3 cr
BIOL 1220, General Biology I, 4 cr

GOAL 4: MATHEMATICS/LOGICAL REASONING.....4 CR

MATH 2208, Fundamentals of Statistics, 4 cr

GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORIAL SCIENCES3 CR

SOC 1614, Introduction to Sociology, 3 cr

GOAL 6: HUMANITIES - THE ARTS, LITERATURE AND PHILOSOPHY3 CR

Choosing one of the following courses:

PHIL 1125, Ethics, 3 cr
PHIL 1130, Environmental Ethics, 3 cr

GOAL 10: PEOPLE AND THE ENVIRONMENT.....3 CR

BIOL 1100, Environmental Biology, 3 cr

II. PROGRAM CORE REQUIREMENTS.....29 CREDITS

BIOL 1230, General Biology II, 4 cr
BIOL 1300, Biological Applications of GIS Technology, 3 cr
BIOL 1310, Environmental Science Seminar, 2 cr
BIOL 2000, Ecology, 4 cr
BIOL 2200, Zoology, 4 cr
BIOL 2300, Genetics, 4 cr

Choose one of the following:

CHEM 1127, Chemical Principles I and CHEM 1128, Chemical Principles II, 8 cr **OR**
PHYS 1117, Introductory Physics I and PHYS 1118, Introductory Physics II, 8 cr

TOTAL60 CREDITS

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PROGRAM OUTCOMES:

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

- Explain and 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.
- Understand and apply knowledge of GIS and GPS technology for purposes of spatial analysis, as integrated tools to determine, interpret, and visualize data and to formulate decisions based upon this knowledge.
- Recognize that biological evolution is the foundation and organizing principle of biology.

ADDITIONAL NOTES:

An articulation agreement has been established between RCTC and Winona State University.

Revised: 02/09/2021

Implementation: Fall 2021