

Environmental Science

Associate in Science Degree

2008-2009

Program Core Requirements	24
Additional Career Requirements	8
General Education/MnTC	30
Wellness	<u>2</u>
Total Credits	64

Program Information: This degree program prepares individuals for entry in the career fields of environmental science and also provides the first two years of a bachelor's degree related to environmental science or environmental studies. Coursework will transfer in its entirety to the Minnesota State University-Mankato and St. Cloud State University and may transfer in part or entirely to the University of Minnesota, Minnesota State University-Moorhead and other postsecondary institutions. Students should meet with a representative of the transfer institution when planning class schedules. For additional information about the environmental science degree, visit the biology department Web site at <http://www.AnokaRamsey.edu>.

Program Goals: By completing this program, students will achieve the following learning goals: 1) Demonstrate comprehension of the ecosystem structure and function; 2) explain the nature of biological communities; 3) demonstration application of critical thinking in classroom and field studies; 4) describe economically and ecologically important resources; 5) evaluate and describe significant environmental dilemmas; 6) explain community and habitat dynamics.

Program Admission: To apply for admission to the environmental science degree program, identify environmental science as your major on your application form.

Developmental Courses: Some students may need preparatory courses in the areas of English or mathematics. Courses numbered below 1000 will not apply toward the AS degree.

Program Core Requirements	24 credits	General Education/MnTC Requirements	30 credits
BIOL 1103 Environmental Science	3	Complete at least 30 credits in courses from the Minnesota Transfer Curriculum, <u>including all courses listed</u> . You must complete at least one course in six of the ten emphasis areas. You may select courses that meet more than one emphasis area.	
BIOL 1103L Environmental Science Lab	1	1. Communication	
BIOL 1106 Principles of Biology I	4	ENGL 1121* College Writing and Critical Reading	4
BIOL 1107* Principles of Biology II	4	SPCH 1110 Introduction to Speech Communication OR	
BIOL 2209* General Ecology	4	SPCH 2220 Interpersonal Communications	3
CHEM 1061 Principles of Chemistry I	4	2. Critical Thinking	
CHEM 1062* Principles of Chemistry II	4	3. Natural Science	
Additional Career Requirements	8 credits	4. Mathematical/Logical Reasoning	
MATH 1110 Introductory Statistics	3	MATH 1200* College Algebra	3
Electives: Select a minimum of 5 credits from the following:		5. History/Social/Behavioral Sciences	
BIOL 2201* Microbiology	4	ECON 2205 Principles of Economics I	3
BIOL 2202* Genetics	3	6. Humanities/Fine Arts	
BIOL 2206* Animal Biology	4	7. Human Diversity	
BIOL 2207* Plant Biology	4	8. Global Perspective	
GEOG 1100 Introduction to GIS	1	9. Ethical/Civic Responsibility	
GEOG 1501 Fundamentals of Maps and Geographic Information	3	10. People and the Environment	
GEOG 1511 Fundamentals of Maps and Geographic Information Lab I	1		
* Course has a prerequisite. Prerequisites listed on back.		Wellness	2 credits
		Select any HPER course(s) totaling at least 2 credits.	
		Notes: (1) A minimum cumulative grade point average (GPA) of 2.0 in courses numbered 1000 or above at ARCC. Some transfer agreements require a GPA of 2.5. (2) A minimum grade of C must be earned in all Program Core requirements. (3) A minimum of 64 semester credits numbered 1000 or above with a minimum of 20 semester credits taken at ARCC (reduced to 12 if 8 credits are transferred from another MnSCU institution or the U of M) is required for graduation.	

Program Sequence: The sequence that follows is suggested for full-time students. Part-time students will need more time to complete this program; many courses are offered in the evening.

<u>First Year</u>		<u>Second Year</u>	
Fall Semester	Spring Semester	Fall Semester	Spring Semester
BIOL 1103	3	BIOL 1107	4
BIOL 1103L	1	CHEM 1062	4
BIOL 1106	4	MATH 1110	3
CHEM 1061	4	General Ed or Electives	<u>3-5</u>
General Ed or Electives	<u>2-4</u>	Total	14-16
Total	14-16		
		BIOL 2209	4
		BIOL 2201 or 2202 or 2206 or 2207	4
		General Ed or Electives	<u>6-8</u>
		Total	14-16

You are encouraged to contact a counselor or an advisor or *Ask Us* on the web site (www.anokaramsey.edu), for course planning assistance and information about transfer credit evaluation. **NOTE:** The requirements of this program are subject to change without notice. Students should refer to the current catalog to determine the limits to earn a degree.