Biological Sciences

Associate in Science Degree 2012-2013

Program Requirements	22
Additional Requirements	8
General Education/MnTC	30
TOTAL CREDITS	**60**

Program Information:

This degree program prepares students for transfer to four-year baccalaureate programs majoring in the Biosciences and related academic tracks such as pre-med and pre-vet. Coursework will transfer in its entirety to Minnesota State University-Mankato and may transfer in part or entirety to other baccalaureate institutions. Students should meet with a representative of the transfer institution when planning class schedules. For additional information about the biological sciences degree, visit the biology department Web site at http://webs.anokaramsey.edu/biology/.

Program Goals:

By completing this program, students will achieve the following learning goals:

1. Demonstrate comprehension of biological systems at all levels of biological organization.
2. Apply the scientific method within course investigations.
3. Communicate biological data, analyses, and interpretations orally and/or in writing.
4. Demonstrate application of critical thinking in classroom, field, and laboratory studies.

Developmental Courses:

Some students may need preparatory courses in the areas of English or Mathematics. Courses numbered below 1000 will not apply toward this degree.

Completion Requirements:

- A minimum of **60 semester credits** in courses numbered **1000** or above.
- A minimum cumulative grade point average (GPA) of 2.0 in courses numbered 1000 or above at ARCC.
- A minimum of **20 semester credits** applied toward the degree must be taken from ARCC. This requirement may be reduced from **20 to 12 semester credits** for students transferring in at least **8 semester credits** from either another MnSCU college or the University of Minnesota.
- Completion of specific degree requirements.

Program Sequence:

The sequence that follows is suggested for full-time students. Students enrolling in this program should be advised to enroll in CHEM 1061 during the summer session prior to beginning the program. Part-time students will need more time to complete this program; many courses are offered in the evening.

	Fall Semester	Spring Semester
FIRST YEAR	BIOL 1106 4	BIOL 1107 4
	MATH 1201 4	CHEM 1062 4
	PHYS 1317 5	PHYS 1318 5
	General Ed/MnTC 2-4	General Ed/MnTC 1-3
	TOTAL 15-17	**TOTAL 14-16**
	Fall Semester	**Spring Semester**
SECOND YEAR	BIOL 2202 4	BIOL 2XXX 4
	BIOL 2XXX 4	CHEM 2062 5
	CHEM 2061 5	General Ed/MnTC 5-7
	General Ed/MnTC 1-3	**TOTAL 14-16**
	TOTAL 14-16	

Program Requirements — 22 credits

- ☐ BIOL 1106♦ Principles of Biology I 4
- ☐ BIOL 1107♦ Principles of Biology II 4
- ☐ BIOL 2202♦ Genetics 4
- ☐ CHEM 2061♦ Organic Chemistry I 5
- ☐ CHEM 2062♦ Organic Chemistry II 5

Additional Requirements ....8 credits

Select a minimum of 8 credits from the following

- ☐ BIOL 2206♦ Animal Biology+ 4
- ☐ BIOL 2207♦ Plant Biology+ 4
- ☐ BIOL 2208♦ Cell Biology++ 4
- ☐ BIOL 2209♦ General Ecology++ 4
- ☐ BIOL 2114♦ Anatomy and Physiology II++ 4

+ *Students transferring to the University of Minnesota or St. Cloud State University should enroll in BIOL 2206 and BIOL 2207.*

++ *Students transferring to Minnesota State University-Mankato should enroll in BIOL 2208 and BIOL 2209 OR BIOL 2209 and BIOL 2214.*

General Education/MnTC Requirements: 30 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. One course may satisfy more than one emphasis area, but the course credits may only be counted once.

☐ 1. **Communication**
- ☐ ENGL 1121♦ (*also meets goal area 2*) 4
- ☐ CMST 2220 (*also meets goal area 7*) 3

☐ 2. **Critical Thinking** (*met by ENGL 1121*)

☐ 3. **Natural Science**
- ☐ CHEM 1061♦ 4
- ☐ CHEM 1062♦ 4
- ☐ PHYS 1317♦ 5
- ☐ PHYS 1318♦ 5

☐ 4. **Mathematical/Logical Reasoning**
- ☐ MATH 1201♦ 4

☐ 7. **Human Diversity** (*met by CMST 2220*)

Choose 1 course from the following goal areas: 1

☐ 5. **History/Social/Behavioral Sciences**

☐ 6. **Humanities/Fine Arts**

☐ 8. **Global Perspective**

☐ 9. **Ethical/Civic Responsibility**

☐ 10. **People and the Environment**

♦ ***Course has a prerequisite. Prerequisites are listed on the course schedule and in the ARCC Catalog Course Descriptions pages.***

NOTE: The requirements of this program are subject to change without notice. You are encouraged to contact an academic advisor, Cambridge Campus 763-433-1840 or Coon Rapids Campus 763-433-1240, for course planning assistance and information about transfer credit evaluation.

Anoka-Ramsey Community College
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