2014-2015

Biological Sciences

Associate in Science Degree

Program Requirements	18
Additional Requirements	12
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. For assistance in program planning, or to explore additional transfer options, students should schedule a time to meet with an academic advisor. This degree may transfer in part or in its entirety to baccalaureate institutions. Students should meet with a representative of the transfer institution when planning their program. 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.
- Satisfy residency requirements. See page 27.
- Completion of specific degree requirements. To receive your diploma, you must apply to graduate.
- The requirements of this program are subject to change without notice.

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	Add'l Requirement 4
	CHEM 1061 4	BIOL 1107 4
	MATH 1201 4	CHEM 1062 4
	General Ed/MnTC 3-4	General Ed/MnTC 3-4
	TOTAL 15-16	**TOTAL 15-16**
SECOND YEAR	**Fall Semester**	**Spring Semester**
	Add'l Requirement 4	Add'l Requirement 4
	CHEM 2061 5	CHEM 2062 5
	General Ed/MnTC 6-8	General Ed/MnTC 6-8
	TOTAL 15-17	**TOTAL 15-17**

Program Requirements — 18 credits

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

Additional Requirements — 12 credits

Electives: Select a total of 12 credits from the following list of courses, with a minimum of 4 credits from the following list of molecular-based courses and a minimum of 4 credits from the following list of organismal-based courses:

MOLECULAR-BASED COURSES:

- ☐ BIOL 2201♦ Microbiology 4
- ☐ BIOL 2202♦ Genetics 4
- ☐ BIOL 2208♦ Cell Biology++ 4

ORGANISMAL-BASED COURSES:

- ☐ BIOL 2206♦ Animal Biology+ 4
- ☐ BIOL 2207♦ Plant Biology+ 4
- ☐ BIOL 2209♦ General Ecology++ 4

+ *Students transferring to the University of Minnesota should enroll in BIOL 2201, 2202, 2206 or 2207.*

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

NOTE: Most transfer programs require 5 or more credits in Physics; consult with an advisor to find out which course(s) are required by your transfer institution.

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
- ☐ 4. **Mathematical/Logical Reasoning**
  - ☐ MATH 1201♦ 4
- ☐ 5. **History/Social/Behavioral Sciences**
- ☐ 6. **Humanities/Fine Arts**
- ☐ 7. **Human Diversity** (*met by CMST 2220*)
- ☐ 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: You are encouraged to contact an academic advisor,at 763-433-1230 for course planning assistance and information about transfer credit evaluation and transfer options.

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