

# Biological and Physical Sciences

## ASSOCIATE OF ARTS AND SCIENCES Minimum of 61 Credits

The A.A. Degree in Biological and Physical Sciences provides a student with a broad understanding of biology, or a wide exposure to physical science. This program focuses on a multidisciplinary approach where emphasis courses are chosen based on student interest. This degree allows the student to begin a baccalaureate program in a variety of fields by completing required courses at CMN and finishing a degree program at a major university. A graduate with an A.A. in Biological and Physical Science could pursue entry-level technician positions at research institutions and corporations.

CORE REQUIREMENTS		(19 CREDITS)	COMPLETED GRADE	
COM100	*Introduction to Oral Communication	3 cr.	_____	_____
EDU100	Student Success Strategies	3 cr.	_____	_____
EDU295	*Student Portfolio Seminar	1 cr.	_____	_____
ENG100	*Introduction to College English Foundations <b>or</b>			
ENG101	*Introduction to College English	3 cr.	_____	_____
ENG102	*College English and Research	3 cr.	_____	_____
MAT104	*College Algebra Foundations <b>or</b>			
MAT106	*College Algebra (or higher-level math course)	3 cr.	_____	_____
SDE100	*Introduction to Sustainable Development	3 cr.	_____	_____
<b>GENERAL EDUCATION REQUIREMENTS</b>		<b>(28-29 CREDITS)</b>		
<b>Natural and Physical Sciences</b>				
CHM101	*Introduction to Chemistry	5 cr.	_____	_____
<b>Choose one of the following***</b>				
Elective	*BIO110/111, BIO202, *CHM205, *PHY103	5 cr.	_____	_____
<b>Social Sciences</b>				
Elective		3 cr.	_____	_____
Elective		3 cr.	_____	_____
<b>Humanities</b>				
HUM100	*Introduction to Humanities	3 cr.	_____	_____
	*American Indian History <b>or</b> American Indian Language	3-4 cr.	_____	_____
Elective		3 cr.	_____	_____
<b>Fine Arts</b>				
Elective		3 cr.	_____	_____
<b>**EMPHASIS COURSE REQUIREMENTS</b>		<b>(14+ CREDITS)</b>		
<b>Choose from the following courses:</b>				
	*BIO110/111 BIO202 BIO204 *BIO205 *BIO207 *CHM205 *CHM207 *CHM110 *CHM231 *PHY103			
Elective			_____	_____
Elective			_____	_____
Elective			_____	_____
Elective			_____	_____

### BIOLOGICAL AND PHYSICAL SCIENCES PROGRAM OUTCOMES

Upon completion of this program, the graduate will be able to:

1. Apply scientific terminology in a clear, concise manner;
2. Examine the contributing factors of change in physical, biological or ecological systems;
3. Analyze the roles of changing factors in physical, biological or ecological systems;
4. Apply the scientific method to an experiment; and
5. Describe the scientific contribution of different cultures.

*\*\*Courses may meet requirements in either the Natural and Physical Sciences General Education Requirements area or in the Emphasis Course Requirements area, not both.*

*At least two Emphasis courses must be 5-credit lab courses. At least four 5-credit lab courses are required for the degree.*

*\*\*\*Students taking Biology courses for the degree may take BIO110/111 or BIO202 and BIO204 for Emphasis credit.*

*\*\*\*Students taking BIO202, BIO204 and BIO207 for Emphasis Course Requirements may not take BIO110/111 as a Natural or Physical Sciences General Education Requirement.*

*Students wishing to pursue Biological or Life Science degrees are strongly urged to take the BIO202-BIO204 sequence.*

*Courses that have an asterisk (\*) in front of them have a requisite. Students should refer to the academic catalog and plan accordingly.*