2016-2017 PETITION/PROGRAM SHEET



Degree: Associate of Science Major: Liberal Arts Emphasis: Biology

About This Emphasis . . .

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The Essential Learning requirements of this degree program meet the Colorado Statewide General Education Core and the lower division general education requirements at most public institutions in Colorado.

In the Biology Program students choose courses from four areas: cell, molecular, and developmental biology; anatomical and physiological biology; organismal biology; or ecology, evolution, and systematics. Graduates of our program with an A.S. degree may then seek to continue their education to pursue careers in teaching, plant pathology, wildlife biology, cell biology or biotechnology, among just a few of the career options, or may use their A.S. to support careers in other disciplines.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

- 1. Demonstrate a basic knowledge of the main areas of biology (including plant and animal biology, evolution, ecology, cell biology and genetics) and the ability to apply this knowledge to address new questions. (Specialized Knowledge)
- 2. Gather, organize and analyze scientific data and draw logical conclusions. (Critical Thinking)
- 3. Demonstrate effective communication skills, both in writing and orally in Biology. (Communication Fluency)

NAME:	STUDENT ID #:	
LOCAL ADDRESS AND PHONE NUMBER: _		
	()	
on the Program Sheet. I have read and understand the	hereby certify that I have completed (or will come policies listed on the last page of this program sheet. I further certept for the courses in which I am currently enrolled and the courses will complete these courses.	tify that the grade listed for
		20
Signature of Advisor	Date	
		20
Signature of Department Head	Date	
		20
Signature of Registrar	Date	

Associate of Science: Liberal Arts - Biology

Posted April 2016

DEGREE REQUIREMENTS:

- Minimum of 60 semester hours total (A minimum of 15 of the final 30 semester hours of credit at CMU).
- 2.00 cumulative GPA or higher in all CMU coursework and a grade of "C" or better must be earned toward the major content area
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Core Transfer Agreements.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- When filling out the program sheet a course can be used only once.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for additional graduation information.

ESSENTIAL LEARNING REQUIREMENTS (31 semester hours) See the current catalog for a list of courses that fulfill the requirements below. If a course is on the Essential Learning list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the Essential Learning requirement. The Essential Learning capstone course and co-requisite Essential Speech course (required for bachelor's degrees) cannot be used as options for the below requirements.

Course No 7	Title Title	Sem.hrs	Grade	Term
must be comp ENGL 111 ENGL 112	mester hours, must receive bleted by the time the studen English Composition English Composition Behavioral Sciences (6 sem	nt has 60 sem 3 3		
Fine Arts (3	semester hours)			
"C" or better, hours.)	H 113 or higher (3 semester must be completed by the College Algebra			-
	ply to the Essential Learn	•	nents ar	nd 1 credit
Humanities	(3 semester hours)	3		
	nces (7 semester hours, one 1L, and 132/132L recommend		include	a lab)

Course No 7	Title	Sem.hrs	Grade	Term
History (3 sem	nester hours)	3		
WELL NECK	DEOLIDMENT (2	1		
WELLNESS VINE 100	S REQUIRMENT (2 semester Health and Wellness	nours)		
		1		
KINA I		_ 1		
BIOLOGY I	EMPHASIS CORE REQUIR	EMENTS	<u>s</u>	
(24 semester	hours)		_	
	(16 semester hours)			
BIOL 105	Attributes of Living Systems	3		
BIOL 105L	Attributes of Living Systems			
	Laboratory	1		
BIOL 106	Principles of Animal Biology			
BIOL 106L	Principles of Animal Biology	7		
	Laboratory	1		
BIOL 107	Principles of Plant Biology	3		
BIOL 107L	Principles of Plant Biology			
	Laboratory	1		
BIOL 208	Fundamentals of Ecology &			
	Evolution	3		
BIOL 208L	23			
	Evolution Lab	1		
*MATH 113	ology Specialization Courses onsultation with student's advis College Algebra	(8 Semest or 1		rs) To be
	Il college level courses, not l nester hours to 60 hours.) Up t			
				
				

Associate of Science: Liberal Arts - Biology

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SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF SCIENCE WITH A MAJOR IN LIBERAL ARTS - EMPHASIS IN BIOLOGY

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

FRESHMAN YEAR

Fall Semester		Hours	Spring Semester		Hours
BIOL 105	Attributes of Living Systems	3	BIOL 106	Principles of Animal Biology	3
BIOL 105L	Attributes of Living Systems Lab	1	BIOL 106L	Principles of Animal Biology Lab	1
ENGL 111	English Composition	3	ENGL 112	English Composition	3
MATH 113	College Algebra (or higher)	4	ESSL	Humanities	3
ESSL	Fine Arts	3	ESSL	Social/Behavioral Science	3
KINE 100	Health and Wellness	<u>1</u>	ESSL	History	<u>3</u>
		15			16

SOPHOMORE YEAR

Fall Semester		Hours	Spring Semester		Hours
BIOL 107	Principles of Plant Biology	3	Biology Specializat	ion Selection	3
BIOL 107L	Principles of Plant Biology Lab	1	ESSL	Natural Science with lab	4
BIOL 208	Fundamentals of Ecology & Evolution	3	ESSL	Social/Behavioral Science	3
BIOL 208L	Fundamentals of Ecology & Evolution La	ab 1	KINA Activity		1
Biology Specializa	tion Selection	4	Electives		<u>3</u>
ESSL	Natural Science	3			14
		15			

POLICIES:

- 1. Please see the catalog for a complete list of graduation requirements.
- 2. This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates. You must turn in your "Intent to Graduate" form to the Registrar's Office by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.
- 3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
- 4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
- 5. NOTE: The semester before graduation, you may be required to take a capstone exit assessment/project.

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