COLORADO MESA

2016-2017 PETITION/PROGRAM SHEET

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

About This Emphasis . . .

The Associate of Science (A.S.) degree with an emphasis in mathematics provides students with a reasonable exposure to foundational college-level mathematics. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The degree program includes the Colorado Statewide General Education Core and meets the lower division general education requirements at most public institutions in Colorado. By completing this degree, students should be able to matriculate into a baccalaureate degree in mathematics with only 60 additional hours of coursework.

For more information on what you can do with this major, go to $\frac{\text{http://www.coloradomesa.edu/career/whatmajor.html}}{\text{http://www.coloradomesa.edu/mathstat/links.html}}$ and/or

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. Construct multi-step problem-solving strategies, and communicate solutions effectively in written form. (Specialized Knowledge/Quantitative Fluency)
- 2. Use mathematical software (including calculators) to aid in problem-solving and investigation, and understand its limitations. (Applied Learning)

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

Associate of Science: Liberal Arts - Mathematics

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).
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- 2.50 cumulative GPA or higher in all CMU coursework
- No more than one "D" may be used in the Mathematics area of emphasis and a grade point average of 2.5 or higher must be maintained for all coursework 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 the transfer under the Core Transfer Agreements.
- 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 Title

Sem.hrs Grade Term

English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)

ENGL 111 English Composition

ENGL 112 English Composition

3 ______

Math MATH (3 semester hours, must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.)

MATH 119 Precalculus Mathematics

OR

Sem.hrs Grade Term

MATH 151 Calculus I *3 credits apply to the Essential Learning requirements and 2 credits apply to elective credit

Course No T	Fitle	Sem.hrs	Grade	Term
Social and B	Behavioral Sciences (6 semes	ter hours)		
Humanities ((3 semester hours)			
Natural Scie	nces (7 semester hours, one co	ourse must	include	a lab)
	mester hours)			
Fine Arts (3	semester hours)			
WELLNESS	REQUIRMENT (2 semeste	r hours)		
	Health and Wellness	1 1		
(15-21 semes	,	REMENTS	<u> </u>	
Core Classes MATH 151*	Calculus I	5		
MATH 151		5		
	Calculus III	4		
	Differential Equations	-		
WH 1111 200	OR	3 or 4		
	Differential Equations and Linear Algebra	3 01 1		
STAT 200		3		
*If MATH 15	51 is used to satisfy the Mathe only 15 semester hours are re			
Electives (6-	12 Semester Hours) Any colle	ge level un	derorad	uate
courses. Rec	ommended: MATH 240 Intro or CSCI 111 Computer Scien	duction to	Advanc	
	Precalculus Mathematics	ce 1-round	iauons.	
<u>OR</u>	i recarculus iviamematics	2		
*MATH 151	Calculus I	2		

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

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
ENGL 111	English Composition	3	ENGL 112	English Composition	3
MATH 151	Calculus I	5	MATH 152	Calculus II	5
Essential Learning	Natural Science with Lab	4	Essential Learning	Natural Science	3
Essential Learning	Social/Behavioral Science	3	STAT 200	Probability and Statistics	3
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SOPHOMORE YEAR

Fall Semester		Hours	Spring Semester		Hours
MATH 253	Calculus III	4	MATH 260	Differential Equations	3
Essential Learning	Humanities	3	MATH 240	Introduction to Advanced Mathematics	
CSCI 111	Computer Science I or Elective	3-4		or Elective	3-4
Essential Learning	Social/Behavioral Science	3	Essential Learning	Fine Arts	3
KINE 100	Health and Wellness	<u>1</u>	Essential Learning	History	3
		14-15	Elective		3
					15-16

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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