COLORADO MESA

2014-2015 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)
- 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:						
	()					
I, (Signature) on the Program Sheet. I have read and understand the policie those courses is the final course grade received except for the semester. I have indicated the semester in which I will comp	es listed on the last page of this program sheet. I further cert e courses in which I am currently enrolled and the courses v	ify that the grade listed for				
		20				
Signature of Advisor	Date					
		20				
Signature of Department Head	Date	-				
		20				
Signature of Registrar	Date	20				

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Students should work closely with a faculty advisor when selecting and	l scheduling courses prior to registration	•
Degree Requirements:	Course No Title	Sem.hrs Grade Term
60 semester hours total (A minimum of 16 taken at CMU in no fewer than two semesters)	Humanities (3 semester hours)	
 Pre-collegiate courses (usually numbered below 100) cannot be used for graduation. 		
 2.50 cumulative GPA or higher in all CMU coursework 	Natural Sciences (7 semester hours, one	course must include a lab)
• 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.	LL	
• A grade of "C" or higher must be earned in all general education	*** (2	
courses in order to be accepted for the transfer under the Core	History (3 semester hours)	
Transfer Agreements. A student must follow the CMU graduation requirements either	HIST	
from 1) the program sheet for the major in effect at the time the	Fine Arts (3 semester hours)	
student officially declares a major; or 2) a program sheet for the	The rites (5 semester nours)	
major approved for a year subsequent to the year during which the		
student officially declares the major and is approved for the student	OTHER LOWER DIVISION REQUI	RMENTS (5 semester hours)
by the department head. Because a program may have requirements		
specific to the degree, the student should check with the faculty	Kinesiology (2 semester hours)	
advisor for additional criteria. It is the student's responsibility to	KINE 100 Health and Wellness	1
be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the	KINA 1	1
student's faculty advisor and Department Head.	Applied Studies (3 semester hours)	
 When filling out the program sheet a course can be used only once. 	rippined studies (s semester nours)	
• See the "Undergraduate Graduation Requirements" in the catalog		
for additional graduation information.		
	MATHEMATICS EMPHASIS REQU	<u>IREMENTS</u>
GENERAL EDUCATION REQUIREMENTS (31 semester hours)	(15-21 semester hours)	
See the current catalog for a list of courses that fulfill the requirements	Como Cloggos	
below. If a course is on the general education list of options and a requirement for your major, you must use it to fulfill the major	Core Classes MATH 151* Calculus I	5
requirement and make a different selection within the general education	MATH 151 Calculus II	5
requirement.	MATH 253 Calculus III	4
•	MATH 260 Differential Equations	
Course No Title Sem.hrs Grade Term	<u>OR</u>	3 or 4
	MATH 236 Differential Equations and	
English (6 semester hours, must receive a grade of "C" or better and	Linear Algebra	
must be completed by the time the student has 60 semester hours.) ENGL 111 English Composition 3	STAT 200 Probability and Statistics *If MATH 151 is used to satisfy the Mat	hamatics Canaral Education
ENGL 111 English Composition 3 ENGL 112 English Composition 3	Requirement, only 15 semester hours are	
ENGL 112 Eligibil Composition 5	Requirement, only 13 semester nours are	required for the emphasis.
Math: MATH (3 semester hours, must receive a grade of "C" or better,	<u>Electives</u> (3-9 Semester Hours) Any coll	ege level undergraduate
must be completed by the time the student has 60 semester hours.)	courses. Recommended: MATH 240 Int	
MATH 119 Precalculus Mathematics	Mathematics or CSCI 111 Computer Science	ence 1-Foundations.
<u>OR</u> 5*	*MATH 119 Precalculus Mathematics	
MATH 151 Calculus I	OR	2
*3 credits apply to the General Ed requirements and 2 credits apply to	*MATH 151 Calculus I	

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Social and Behavioral Sciences (6 semester hours)

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 Semest	oring Semester	
ENGL 111	English Composition	3	ENGL 112	English Composition	3
MATH 151	Calculus I	5	MATH 152	Calculus II	5
General Education	on Natural Science with Lab	4	General Educat	ion Natural Science	3
General Education	on Social/Behavioral Science	3	STAT 200	Probability and Statistics	3
		15	KINA	Activity	<u>1</u>
				•	15

SOPHOMORE YEAR

Fall Semester		Hours	Spring Semester	r	Hours
MATH 253	Calculus III	4	MATH 260	Differential Equations	3
General Education Humanities		3	MATH 240	Introduction to Advanced Mathematics of	r Elec.3-4
CSCI 111 Compute	r Science I or Elective	3-4	General Education	on Fine Arts	3
General Education	Social/Behavioral Science	3	General Education	on History	3
KINE 100	Health and Wellness	<u>1</u>	General Education	on Applied Studies	<u>3</u>
		14-15			15-16

POLICIES:

- 1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the catalog for a complete list of graduation requirements.
- 2. 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. 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.
- 4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
- 5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
- 6. 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.
- 7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).

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