

## 2014-2015 PETITION/PROGRAM SHEET

**Minor: Mathematics** 

**About This Minor...**A minor in mathematics is a natural enhancement to many majors outside mathematics where an understanding of mathematics is needed (e.g. physics, engineering, computer science, chemistry, biology, geology). A minor in mathematics enables non-mathematics majors to complete a focused course of study in mathematics on a smaller scale.

All CMU 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:

- 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)

## POLICIES:

- 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).

NAME:	STUDENT ID #				
LOCAL ADDRESS AND PHONE NUMBER: _					
	( )				
I, (Signature)	, hereby certify that I have completed (or will de listed for those courses is the final course grade received except next semester. I have indicated the semester in which I will comp	complete) all the courses listed of the courses in which I am elete these courses.			
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Signature of Mathematics Advisor	Date				
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Signature of Department Head	Date				
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Signature of Registrar	Date				

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration. See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.

## Minor Requirements:

- At least 33 percent of the credit hours required for the minor must be courses numbered 300 or above.
- 2.00 cumulative GPA or higher in the minor is required
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- The number of minors a student may receive at Colorado Mesa University shall not exceed two.
- 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.

REQUIRED COURSES (20-24 Semester Hours) See the current catalog for a list of courses that fulfill the requirements below.			Course No Title		Sem.hrs	Grade	Term		
					MATH 352	Advanced Calculus	3		
Course No Title		Sem.hrs	Grade	Term	MATH 360	Methods of Applied Math	3		
					MATH 361	Numerical Analysis	4		
MATH 152	Calculus II	5			MATH 362	Fourier Analysis	3		
	<u>OR</u>				MATH 365	Mathematical Modeling	3		
MATH 136	Engineering Calculus II	4			MATH 369	Discrete Structures I	3		
					MATH 370	Discrete Structures II	3		
Two of the following courses				MATH 386	Geometries	4			
MATH 240	Introduction to Advanced				MATH 420	Topology	3		
	Mathematics	4			MATH 430	Mathematical Logic	3		
MATH 253	Calculus III	4			MATH 450	Complex Variables	3		
					MATH 452	Introduction to Real Analysis	I 3		
MATH 260	Differential Equations				MATH 453	Introduction to Real Analysis	II 3		
	<u>OR</u>	3 or 4			MATH 460	Linear Algebra II	3		
MATH 236	Differential Equations and				MATH 490	Abstract Algebra I	3		
	Linear Algebra				MATH 491	Abstract Algebra II	3		
					MATH 396	Topics	3		
Three of the following courses:		9	<u>OR</u>						
MATH 310	Number Theory	3			Math 496	Горісs	3		
<b>MATH 325</b>	Linear Algebra I	3				_			
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