



2012-2013 PETITION/PROGRAM SHEET
Degree: Bachelor of Science
Major: Mathematics

About This Major . . .

With a major in mathematics students develop powerful problem-solving, logical and critical thinking skills. By completing the required coursework, students gain an understanding of the nature of proof, a broad general understanding of mathematics, and a deep understanding of at least one area of mathematics. Math majors also develop independent learning skills and oral and written mathematical communication skills.

Mathematics majors get jobs in a wide variety of areas. Our graduates have worked for local businesses, have run their own businesses and have worked for scientific companies. Other graduates have continued their educations by attending graduate school (in mathematics, computer science and engineering), law school, medical school and veterinary school.

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

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 will 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 complete) all the courses listed on the Program Sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

 Signature of Advisor Date _____ 20____

 Signature of Department Head Date _____ 20____

 Signature of Registrar Date _____ 20____

CORE CLASS ELECTIVES: Four Courses from the following:

MATH 260 Differential Equations (3) **or** MATH 236 Diff. Eqs/Linear Algebra (4)
MATH 310 Number Theory (3)
MATH 360 Methods of Applied Mathematics (3)
MATH 361 Numerical Analysis (4)
MATH 362 Fourier Analysis (3)
MATH 365 Mathematical Modeling (3)
MATH 369 Discrete Structures I (3)
MATH 370 Discrete Structures II (3)

MATH 386 Geometries (4)
MATH 420 Introduction to Topology (3)
MATH 430 Mathematical Logic (3)
MATH 450 Complex Variables (3)
MATH 460 Linear Algebra II (3)
MATH 453 Introduction to Real Analysis II (3) **or** MATH 491 Abstract Algebra II (3)
MATH 396 Topics (1-3) **or** MATH 496 Topics (1-3)
STAT 311 Statistical Methods (3)

(At most one topics class, which must be 3 semester hours, can be used as one of these four courses)

SUGGESTED COURSE SEQUENCING FOR A MAJOR IN MATHEMATICS

This is one recommended sequence of course work. This sequence is not unique, there are other sequences that will fulfill the program requirements. 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
MATH 151	Calculus I	5	MATH 152	Calculus II	5
ENGL 111	English Composition	3	ENGL 112	English Composition	3
KINA	Activities (2 courses)	2	CSCI 111	Computer Science 1-Foundations	4
General Education Natural Science		3	KINE 100	Health and Wellness	1
General Education Social/Behavioral Science		<u>3</u>	General Education Social/Behavioral Science		<u>3</u>
		16			16

SOPHOMORE YEAR

Fall Semester		Hours	Spring Semester		Hours
MATH 240	Introduction to Advanced Mathematics	4	MATH 325	Linear Algebra	3
MATH 253	Calculus III	4	Upper Division Math Choice		3
General Education Fine Arts		3	General Education Natural Science with Lab		4
General Education History		3	General Education Applied Studies		3
Upper Division Elective		<u>3</u>	General Education Humanities		<u>3</u>
		17			16

JUNIOR YEAR

Fall Semester		Hours	Spring Semester		Hours
MATH 490	Abstract Algebra I or		MATH 491	Abstract Algebra II or	
MATH 452	Intro to Real Analysis I	3	MATH 453	Intro to Real Analysis II	3
STAT 200	Probability and Statistics	3	Upper Division Math Choice		3
Upper Division Elective		3	Upper Division Electives		6
Electives		<u>6</u>	Elective		<u>3</u>
		15			15

SENIOR YEAR

Fall Semester		Hours	Spring Semester		Hours
MATH 452	Intro to Real Analysis I or		MATH 494	Senior Seminar II	2
MATH 490	Abstract Algebra I	3	Upper Division Math Choice		3
Upper Division Math Choice		3	Electives		<u>6</u>
Elective		3			11
Upper Division Elective		3			
MATH 484	Senior Seminar I	<u>2</u>			
		14			