

## 2011-2012 PETITION/PROGRAM SHEET

**Degree: Bachelor of Science**

**Major: Mathematics**

**Concentration: Statistics**

### About This Major . . .

With a major in mathematics with a concentration in statistics, students develop problem-solving, logical and critical thinking skills. While completing the required coursework, students gain an understanding of the nature of proof, a general understanding of mathematics and an understanding of statistical reasoning, necessary assumptions and the correct use of statistical analysis procedures. Math/statistics majors also develop statistical software skills and oral and written mathematical communication skills.

The statistics concentration in mathematics prepares students for graduate work in statistics or to enter the job force. With some additional job-specific training, students entering the job market could function as applied statisticians working in areas such as actuarial science, wildlife management, marketing, quality control, and epidemiology to name a few.

### 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).

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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\_\_



## SUGGESTED COURSE SEQUENCING FOR THE CONCENTRATION IN STATISTICS

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
MATH 151      Calculus I	5	MATH 152      Calculus II	5
CSCI 111      CS1: Foundations of Computer Science	4	ENGL 112      English Composition	3
ENGL 111      English Composition	3	General Education Social/Behavioral Science	3
General Education Social/Behavioral Science	3	General Education History	3
KINE 100      Health and Wellness	<u>1</u>	KINA      Activity	<u>1</u>
	16		15

### SOPHOMORE YEAR

Fall Semester	Hours	Spring Semester	Hours
MATH 240      Introduction to Advanced Mathematics	4	MATH 253      Calculus III	4
General Education Humanities	3	STAT 200      Probability and Statistics	3
General Education Fine Arts	3	General Education Natural Science with Lab	4
General Education Applied Studies	3	Elective	<u>3</u>
General Education Natural Science	<u>3</u>		14
	16		

### JUNIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
Math 325      Linear Algebra I	3	STAT 313      Sampling Techniques	3
STAT 311      Statistical Methods	3	STAT 351      Mathematical Statistics II	3
STAT 350      Mathematical Statistics I	3	Upper Division Elective	3
Elective	3	MATH 394      Mathematics Colloquium	1
Upper Division Elective	<u>3</u>	Elective	3
	15	Elective	<u>3</u>
			16

### SENIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
MATH 452      Intro to Real Analysis I <b>or</b>		STAT 425      Design & Analysis of Experiments <b>or</b>	
Math 460      Linear Algebra II	3	STAT 496      Topics	3
STAT 412      Correlation and Regression	3	MATH 494      Senior Seminar II	2
Math 484      Senior Seminar I	2	KINA      Activity	1
Upper Division Elective	3	Elective	3
Upper Division Elective	2	Elective	<u>3</u>
Elective	<u>3</u>		12
	16		