



2013-2014 PETITION/PROGRAM SHEET

Degree: Bachelor of Science

Major: Mathematics

Concentration: Statistics

About This Major . . .

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

All CMU baccalaureate 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 and concentration 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 to aid in problem-solving and investigation, and understand its limitations. (Applied Learning)
3. apply appropriate statistical procedures and justify chosen assumptions. (Applied Learning)
4. draw statistical conclusions and evaluate the validity of others' conclusions. (Critical Thinking)
5. communicate technical analyses to non-specialists. (Communication Fluency)

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 have read and understand the policies listed on the last page of this 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

Signature of Department Head

Date

Signature of Registrar

Date

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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:		ENGL 112 English Composition	3
Foundations of Computer Science	4	General Education Social/Behavioral Science	3
ENGL 111 English Composition	3	General Education History	3
General Education Social/Behavioral Science	3	KINA Activity	<u>1</u>
KINE 100 Health and Wellness	<u>1</u>		15
	16		

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 <u>or</u>		STAT 425 Design & Analysis of Experiments <u>or</u>	
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		

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).