### 2011-2012 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.

#### 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).

NAME:	STUDENT ID #				
LOCAL ADDRESS AND PHONE NUMBER:					
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	, hereby certify that I have completed (or will be listed for those courses is the final course grade received except semester. I have indicated the semester in which I will complete the semester in which I will be seminated the seminat				
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Signature of Advisor	Date				
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Signature of Department Head	Date				
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Signature of Registrar	Date				

Associate of Science: Liberal Arts - Mathematics Posted 8/10/11

Degree Requirements:  6 60 semester hours total (A minimum of 16 taken at CMU in no fewer than two semesters)  Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.  2.250 cumulative GPA or higher in all CMU coursework  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 emain all coursework toward the major content area.  A grade of "C" or higher must be earned in all general education courses in order to be accepted for the transfer under the Core Transfer Agreements.  A student must follow the CMU graduation requirements either from 1) the program sheet for the major approved for a year subsequent to the year during which the student officially declares a major, or 2) a program sheet for the student officially declares a major, or 2) a program sheet for the student officially declares a major or or 2) a program sheet for 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 heck 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.  When filling out the program sheet a course can be used only once.  See the "Undergraduate Graduation Requirements" in the catalog for a diditional graduation information.  GENERAL EDUCATION REQUIREMENTS (31 semester hours)  See the current catalog for a list of courses that fulfill the requirement and make a different selection within the general education requirement.  Course No Title Sem.hrs Grade Term  English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)  Afth: MATH (3 semester hours, must receive a grade of "C" or better and must be completed by the time the student has	Students should work closely with a faculty advisor when selecting and	l scheduling courses prior to	registration.	
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GENERAL EDUCATION REQUIREMENTS See the current catalog for a list of courses that fulfill the requirements 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 requirement and make a different selection within the general education requirement.  Course No Title  Sem.hrs Grade Term  Course No Title  Sem.hrs Grade Term  English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)  ENGL 111 English Composition  ENGL 112 English Composition  MATHEMATICS EMPHASIS REQUIREMENTS (15-21 semester hours)  Core Classes  MATH 151* Calculus II  MATH 250 Differential Equations  OR  MATH 236 Differential Equations and  Linear Algebra  STAT 200 Probability and Statistics  **If MATH 151* is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.  Math: MATH (3 semester hours, must receive a grade of "C" or better,  Electives (3-9 Semester Hours) Any college level undergraduate				
GENERAL EDUCATION REQUIREMENTS (31 semester hours)  See the current catalog for a list of courses that fulfill the requirements 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 requirement and make a different selection within the general education requirement.  Course No Title  Sem.hrs Grade Term  Course No Title  Sem.hrs Grade Term  English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)  ENGL 111 English Composition  ENGL 112 English Composition  Math: MATH (3 semester hours, must receive a grade of "C" or better,  Math: MATH (3 semester hours, must receive a grade of "C" or better,  [15-21 semester hours)		MATHEMATICS EMPHA	ASIS REQUIREMENTS	) •
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 requirement and make a different selection within the general education requirement.  Course No Title  Sem.hrs Grade Term  Course No Title  Sem.hrs Grade Term  MATH 253  Calculus II  MATH 253  Calculus III  MATH 260  Differential Equations  OR  MATH 236  Differential Equations and  Linear Algebra  STAT 200  Probability and Statistics  STAT 200  Probability and Statistics  STAT 200  Probability and Statistics  "If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.  Math: MATH (3 semester hours, must receive a grade of "C" or better,  MEDIATION TO BETTER 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.				
requirement for your major, you must use it to fulfill the major requirement and make a different selection within the general education requirement.  MATH 151* Calculus I 5				
requirement and make a different selection within the general education requirement.  MATH 152 Calculus III 5 MATH 253 Calculus III 4 MATH 260 Differential Equations  OR 3 or 4 MATH 236 Differential Equations and Linear Algebra  STAT 200 Probability and Statistics 3 ENGL 111 English Composition 3 ENGL 112 English Composition 3 ENGL 112 English Composition 3 ENGL 113 English Composition 3 ENGL 114 English Composition 3 ENGL 115 English Composition 3 ENGL 116 English Composition 3 ENGL 117 English Composition 3 ENGL 118 English Composition 3 ENGL 119 English Composition 3 ENGL 110 English Composition 3 ENGL 111 English Composition 3 ENGL 112 English Composition 3 ENGL 113 English Composition 3 ENGL 114 English Composition 3 ENGL 115 English Composition 3 ENGL 116 English Composition 3 ENGL 117 English Composition 3 ENGL 118 English Composition 3 ENGL 119 English Composition 3 ENGL 119 English Composition 3 ENGL 119 English Composition 3 ENGL 1110 English Composition 3 ENGL 1111 English Composition 3 ENGL 1112 English Composition 3 ENGL 1112 English Composition 3 ENGL 1118 English Composition 3 ENGL 1119 English Composition 3 ENGL 1110 English Composition 3 ENGL 1110 English Composition 3 ENGL 1110 English Composition 3 ENGL 1111 English Composition 3 ENGL 1111 English Composition 3 ENGL 1112 English Composition 3 ENGL 1112 English Composition 3 ENGL 1111 English Composition 3 ENGL 1				
requirement.  Course No Title  Sem.hrs Grade Term  MATH 253 Calculus III  MATH 260 Differential Equations  OR  MATH 236 Differential Equations and  Linear Algebra  STAT 200 Probability and Statistics 3  *If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.  MATH 253 Calculus III  MATH 253 Differential Equations  OR  MATH 256 Differential Equations and  Linear Algebra  STAT 200 Probability and Statistics 3  *If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.  MATH 258 Calculus III  MATH 259 Differential Equations  OR  STAT 200 Probability and Statistics 3  *If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.				
Course No Title  Sem.hrs Grade Term  MATH 260  Differential Equations  OR  MATH 236  Differential Equations and  Linear Algebra  STAT 200  Probability and Statistics 3  *If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.  MATH 260  Differential Equations  OR  MATH 236  Differential Equations  And Linear Algebra  STAT 200  Probability and Statistics 3  *If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.  MATH 260  Differential Equations  OR  MATH 236  Differential Equations  OR  STAT 200  Probability and Statistics 3  *If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.				
Course No Title  Sem.hrs Grade Term  MATH 236  Differential Equations and  Linear Algebra  STAT 200  Probability and Statistics  STAT 200  Probability and Statistics  *If MATH 151 is used to satisfy the Mathematics General Education  Requirement, only 15 semester hours are required for the emphasis.  Math: MATH (3 semester hours, must receive a grade of "C" or better,    OR	requirement.			
English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)  ENGL 111 English Composition 3			-	
English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)  ENGL 111 English Composition 3 *If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.  Math: MATH (3 semester hours, must receive a grade of "C" or better,  Electives (3-9 Semester Hours) Any college level undergraduate	Course No Title Sem.hrs Grade Term			
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Math: MATH (3 semester hours, must receive a grade of "C" or better,  Electives (3-9 Semester Hours) Any college level undergraduate				
	ENGL 112 English Composition 3	Requirement, only 15 semes	ster nours are required for	uie empnasis.
	Math: MATH (3 semester hours must receive a grade of "C" or better	Flectives (3-9 Semester Hou	irs) Any college level and	ergraduate
	must be completed by the time the student has 60 semester hours.)			

must be completed by the time the student has 60 semester hours.) MATH 119 Precalculus Mathematics

5\* <u>OR</u> MATH 151 Calculus I

\*3 credits apply to the General Ed requirements and 2 credits apply to elective credit

Social and Behavioral Sciences (6 semester hours)

Mathematics or CSCI 111 Computer Science 1-Foundations.

\*MATH 119 Precalculus Mathematics

\*MATH 151 Calculus I

<u>OR</u>

# 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	er	Hours
ENGL 111	English Composition	3	ENGL 112	English Composition	3
MATH 151	Calculus I	5	MATH 152	Calculus II	5
General Educatio	n Natural Science with Lab	4	General Educat	ion Natural Science	3
General Educatio	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	Hours
MATH 253 Calculus III	4	MATH 260	Differential Equations 3
General Education Humanities	3	MATH 240	Introduction to Advanced Mathematics or Elec.3-4
CSCI 111 Computer Science I or I	Elective 3-4	General Educatio	n Fine Arts 3
General Education Social/Behavio	ral Science 3	General Educatio	n History 3
KINE 100 Health and We	ellness <u>1</u>	General Educatio	n Applied Studies <u>3</u>
	14-15		15-16

Associate of Science: Liberal Arts - Mathematics Posted 8/10/11