



2006 – 07 PETITION/PROGRAM SHEET

Degree: Associate of Science

Major: Liberal Arts

Emphasis: Mathematics

www.mesastate.edu/main/academics/snsmlisting.htm#asmath

About This Emphasis . . .

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. 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.

POLICIES:

- 1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the MSC 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 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

- 60 semester hours are required for the Associate of Science degree. Must meet the academic residency requirements.
- A cumulative grade point average of 2.5 or higher must be maintained for all courses taken.
- 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 maintained for all courses within the Mathematics area of emphasis.
- 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.
- No double counting is allowed between general education requirements and major requirements.
- It is recommended that students work closely with a faculty advisor when selecting appropriate courses and scheduling classes.

**GENERAL EDUCATION REQUIREMENTS** (33 Semester Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs
<b>English and Speech:</b> ENGL 111 and 112, SPCH 102 (9 semester hours, must earn a grade of "C" or above in ENGL 111 and 112)						
ENGL	<u>111</u>	<u>3</u>	___	___	___	___
ENGL	<u>112</u>	<u>3</u>	___	___	___	___
SPCH	<u>102</u>	<u>3</u>	___	___	___	___
<b>Physical Sciences/Math</b> (12 semester hours)						
Science (minimum 8 semester hours)						
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___
Math (minimum 4 semester hours, MATH 113 or higher, must receive grade of "C" or above)*						
___	___	___	___	___	___	___

Course	No.	Credit	Grade	Term	Year	Trns/Subs
<b>Social and Behavioral Sciences:</b> (6 Semester Hours)						
(Minimum of 2 different disciplines)						
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

Course	No.	Credit	Grade	Term	Year	Trns/Subs
<b>Humanities</b> (6 semester hours)						
(Minimum of 2 different disciplines)						
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

\* Math 151 may count as the general education mathematics requirement. If taken, it will be counted in the general education area and only 15 semester hours will be required in the Mathematics area of emphasis.

**Kinesiology** (2 semester hours) KINE/HPWA 100 and one KINA/HPWE/Selected DANC course

Course	No.	Credit	Grade	Term	Year	Trns/Subs
KINE/HPWA	<u>100</u>	<u>1</u>	___	___	___	___

Course	No.	Credit	Grade	Term	Year	Trns/Subs
KINA/HPWE	___	<u>1</u>	___	___	___	___

**Mathematics Emphasis Requirements** (15-20 Semester Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs
MATH	<u>151*</u>	<u>5</u>	___	___	___	___
MATH	<u>152</u>	<u>5</u>	___	___	___	___
MATH	<u>253</u>	<u>4</u>	___	___	___	___

Course	No.	Credit	Grade	Term	Year	Trns/Subs
MATH	<u>260</u>	<u>3</u>	___	___	___	___
STAT	<u>200</u>	<u>3</u>	___	___	___	___

\*If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 15 semester hours are required for the emphasis.

**Electives** (5-10 Semester Hours) Any college level undergraduate courses excluding KINA/HPWE.

Course	No.	Credit	Grade	Term	Year	Trns/Subs
___	___	___	___	___	___	___
___	___	___	___	___	___	___

Course	No.	Credit	Grade	Term	Year	Trns/Subs
___	___	___	___	___	___	___
___	___	___	___	___	___	___

Recommended: MATH 225, MATH 240, and CSCI 111

**GENERAL EDUCATION REQUIREMENTS** (minimum 33 Semester Hours)

**English and Speech – 9 Semester Hours**

ENGL 111 and ENGL 112 **or** ENGL 129 (*by permission*)

**And** SPCH 102 (required)

See current Mesa State College Catalog for list of courses that fulfill the requirements below.

**Mathematics and Science – minimum 12 Semester Hours**

Minimum 4 semester hours in Math and minimum 8 semester hours in Science. Both lecture and Lab must be taken in all courses having both.

**Humanities – 6 semester hours.** Minimum of two different disciplines required.

**Social and Behavioral Sciences – 6 semester hours.** Minimum of two different disciplines required.

**OTHER REQUIREMENTS** (2 Semester Hours)

**Kinesiology – 2 Semester Hours**

Each student must take KINE/HPWA 100 together with one KINA/HPWE/Selected DANC course. See current catalog for listing.

**Mathematics Emphasis Requirements** (15-20 Semester Hours)

Required Courses

MATH 151 Calculus I\* (5)

MATH 152 Calculus II (5)

MATH 253 Calculus III (4)

MATH 260 Differential Equations (3)

STAT 200 Probability and Statistics (3)

\*MATH 151 may count as the mathematics general education requirement. This will leave a balance of 9 hours of free electives.

**Electives:** 5-9 semester hours. Recommended: MATH 225 Computational Linear Algebra, MATH 240 Introduction to Advanced Mathematics, and CSCI 111 Computer Science I.

Students are required to participate in exit examinations or other programs deemed necessary to comply with the college accountability requirement. All degree requirements must be completed as described above. Any exceptions or substitutions must be recommended in advance by the faculty advisor and approved by the Department Head.

**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 their advisor and check the 2 year course matrix on the Mesa State website for course availability.

**FRESHMAN YEAR**

<u>Fall Semester</u>	<u>Hours</u>	<u>Spring Semester</u>	<u>Hours</u>
ENGL 111      English Composition	3	ENGL 112      English Composition	3
MATH 151      Calculus I	5	MATH 152      Calculus II	5
General Education Natural Science with Lab	4	General Education Natural Science	4
General Education Social/Behavioral Science	<u>3</u>	STAT 200      Probability and Statistics	<u>3</u>
	15		15

**SOPHOMORE YEAR**

<u>Fall Semester</u>	<u>Hours</u>	<u>Spring Semester</u>	<u>Hours</u>
MATH 253      Calculus III	4	MATH 260      Differential Equations	3
General Education Humanities	3	MATH 240      Introduction to Advanced Mathematics	3
CSCI 111 Computer Science I or Elective	4	Elective	2
General Education Social/Behavioral Science	3	General Education Humanities	3
KINE/HPWA 100 Health and Wellness	<u>1</u>	KINA/HPWE      Activity	1
	15	SPCH 102      Speechmaking	<u>3</u>
			15