



2005 – 06 PETITION/PROGRAM SHEET

Degree: Associate of Science

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 your MSC Catalog for a complete list of graduation requirements.
2. You must go to the Registrar's Office and fill out the "Intent to Graduate" form at the beginning of the semester prior to graduating.
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to graduating, no later than September 15 for Spring graduates, February 15 for Fall graduates.
4. Your advisor will sign and forward the Program Sheet, Intent to Graduate Form, 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.

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__

GENERAL EDUCATION REQUIREMENTS (33 Semester Hours)

Course No. Credit Grade Term Year Trns/Subs

English and Speech: 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>	_____	_____	_____	_____

Physical Sciences/Math (12 semester hours)

Science (minimum 8 semester hours)

_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Math (minimum 4 semester hours, MATH 113 or higher, must receive grade of "C" or above)*

_____	_____	_____	_____	_____	_____	_____
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* 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.

Course No. Credit Grade Term Year Trns/Subs

Social and Behavioral Sciences: (6 Semester Hours)
(Minimum of 2 different disciplines)

_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Humanities (6 semester hours)

(Minimum of 2 different disciplines)

_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Human Performance and Wellness (2 semester hours) HPWA 100 and one HPWE activity

Course No. Credit Grade Term Year Trns/Subs

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

HPWE	_____	<u>1</u>	_____	_____	_____	_____
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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 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

- 60 semester hours are required for the Associate of Science degree. Must meet the academic residency requirements.
- A cumulative grade point average of 2.0 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 (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)

Human Performance and Wellness – 2 Semester Hours
 Each student must take HPWA 100 together with one HPWE Activity 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 AN EMPHASIS IN MATHEMATICS**

FRESHMAN YEAR

Fall Semester	Hours	Spring Semester	Hours
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

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	3
CSCI 111 Computer Science I or Elective	4	Elective	2
General Education Social/Behavioral Science	3	General Education Humanities	3
HPWA 100 Health and Wellness	<u>1</u>	HPWE Activity	1
	15	SPCH 101 Speechmaking	<u>3</u>
			15