

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: _____
 _____ () _____

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____

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Degree Requirements:

- 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.
- 2.50 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 maintained for 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 in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which 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 check 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 additional graduation information.

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 |
|-----------------|---------|-------|------|
|-----------------|---------|-------|------|

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 | _____ | _____ |
| ENGL 112 English Composition | 3 | _____ | _____ |

Math: MATH (3 semester hours, must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.)

| | | | |
|----------------------------------|----|-------|-------|
| MATH 119 Precalculus Mathematics | 5* | _____ | _____ |
| OR | | | |
| 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)

| | | | |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

| Course No Title | Sem.hrs | Grade | Term |
|-----------------|---------|-------|------|
|-----------------|---------|-------|------|

Humanities (3 semester hours)

| | | | |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
|-------|-------|-------|-------|

Natural Sciences (7 semester hours, one course must include a lab)

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|---------------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ L _____ | _____ | _____ | _____ |

History (3 semester hours)

| | | | |
|------------|-------|-------|-------|
| HIST _____ | _____ | _____ | _____ |
|------------|-------|-------|-------|

Fine Arts (3 semester hours)

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|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
|-------|-------|-------|-------|

OTHER LOWER DIVISION REQUIREMENTS (5 semester hours)

Kinesiology (2 semester hours)

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|------------------------------|---|-------|-------|
| KINE 100 Health and Wellness | 1 | _____ | _____ |
| KINA 1 _____ | 1 | _____ | _____ |

Applied Studies (3 semester hours)

| | | | |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
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MATHEMATICS EMPHASIS REQUIREMENTS

(15-21 semester hours)

Core Classes

| | | | |
|--|--------|-------|-------|
| MATH 151* Calculus I | 5 | _____ | _____ |
| MATH 152 Calculus II | 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 | _____ | _____ |

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

Electives (3-9 Semester Hours) Any college level undergraduate courses. Recommended: MATH 240 Introduction to Advanced Mathematics or CSCI 111 Computer Science 1-Foundations.

| | | | |
|-----------------------------------|---|-------|-------|
| *MATH 119 Precalculus Mathematics | 2 | _____ | _____ |
| OR | | | |
| *MATH 151 Calculus I | | | |

| | | | |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

**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 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 | 3 |
| General Education Social/Behavioral Science | <u>3</u> | 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 Elective | 3-4 | General Education Fine Arts | 3 |
| General Education Social/Behavioral Science | 3 | General Education History | 3 |
| KINE 100 Health and Wellness | <u>1</u> | General Education Applied Studies | <u>3</u> |
| | 14-15 | | 15-16 |