



2006 – 07 PETITION/PROGRAM SHEET

Degree: Associate of Science

Major: Liberal Arts

Emphasis: Computer Science

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

About This Emphasis . . .

Computer science is the study of algorithms and the issues involved in implementing them. The Computer Science Associate Degree includes courses in web page design, programming languages, data structures and computer architecture. The degree prepares students to complete a BS in Computer Science, which is strongly recommended. Some employment opportunities open to the successful graduate in the associates program are web development, computer operator or technical support positions.

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 and for all courses within the Computer Science 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)

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
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**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>	___	___	___	___

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

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

**Physical Sciences/Math** (12 semester hours)

Science (minimum 8 semester hours)

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

**Humanities** (6 semester hours)

(Minimum of 2 different disciplines)

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

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 17 semester hours will be required in the Computer Science area of emphasis.

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

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
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KINE/HPWA	<u>100</u>	<u>1</u>	___	___	___	___
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<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
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KINA/HPWE	___	<u>1</u>	___	___	___	___
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**Computer Science Emphasis Requirements** (17-22 Semester Hours)

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
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MATH	<u>151*</u>	<u>5</u>	___	___	___	___
CSCI	<u>111</u>	<u>4</u>	___	___	___	___
CSCI	<u>112</u>	<u>4</u>	___	___	___	___

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
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CSCI	<u>206</u>	<u>3</u>	___	___	___	___
CSCI	<u>241</u>	<u>3</u>	___	___	___	___
CSCI	<u>250</u>	<u>3</u>	___	___	___	___

\*If MATH 151 is used to satisfy the Mathematics General Education Requirement, only 17 semester hours are required for the emphasis.

**Electives** (3-8 Semester Hours) Any college level undergraduate courses excluding KINA/HPWE.

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

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

MATH 152 is recommended, particularly for those students who are considering going on to the Bachelor of Science in Computer Science degree.

**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.

**Computer Science Emphasis Requirements** (17-22 Semester Hours)

Required Courses

MATH 151 Calculus I\*

CSCI 111 Computer Science I

CSCI 112 Computer Science II

CSCI 206 Web Page Design II

CSCI 241 Computer Architecture

CSCI 250 Data Structures

\*MATH 151 may count as the mathematics general education requirement. If taken, only 17 semester hours are required for the emphasis.

**Electives:** 3-8 semester hours (MATH 152 Calculus II recommended)

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 COMPUTER SCIENCE

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

Fall Semester	Hours	Spring Semester	Hours
ENGL 111      English Composition	3	ENGL 112      English Composition	3
MATH 151      Calculus I	5	Computer Science/Math Elective	4
CSCI 111      Computer Science I	4	CSCI 112      Computer Science II	4
General Education Social/Behavioral Science	3	General Education Social/Behavioral Science	<u>3</u>
KINE/HPWA 100 Health and Wellness	<u>1</u>		14
	16		

### SOPHOMORE YEAR

Fall Semester	Hours	Spring Semester	Hours
SPCH 102      Speechmaking	3	CSCI 206      Web Page Design II	3
CSCI 250      Data Structures	3	CSCI 241      Computer Architecture	3
General Education Physical Science	4	General Education Physical Science	4
General Education Humanities	3	General Education Humanities	3
KINA/HPWE      Activity	<u>1</u>	Elective	<u>3</u>
	14		16