2007 – 08 PETITION/PROGRAM SHEET
Degree: Bachelor of Science
Major: Computer Science
www.mesastate.edu/schools/snsm/csms

About This Major . . .

Computer science is the study of algorithms and the issues involved in implementing them. A wide variety of exciting professional and academic opportunities exist for graduates of computer science including software engineering, computational finance, game design, computer graphics, robotics, artificial intelligence, internet systems and technology, security, hardware development, animation, medicine, biotechnology, business management and consulting, modeling, as well as masters and doctoral studies in computing-related fields. Our graduates have continued on to advanced degrees in top tier schools and are employed for IBM, Microsoft, Sun, Lockheed-Martin, and many other technical companies. The starting salary for our graduates is very competitive.

The Computer Science program at Mesa State College includes core courses in algorithms, data structures, logic, programming languages, software design, and advanced mathematics. Electives in web page design, artificial intelligence, computer graphics, game theory, databases, multimedia, and networks are also possible. The program and course offerings are constantly evolving to keep up with the latest changes in the Computer Science field.

Our Computer Science program benefits from small class sizes and close interaction between faculty and students. Upper level students are often involved in independent research with faculty or internships in local businesses. A student chapter of the ACM (Association for Computing Machinery) has monthly meetings where information about new software and computer hardware is presented and there are talks by guest speakers. Mesa State usually has several teams of students who compete in the regional programming contest sponsored by the ACM and in the past has competed in the national programming contest.

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 will 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.

_____ _____ 20____
Signature of Advisor Date

_____ _____ 20____
Signature of Department Head Date

_____ _____ 20____
Signature of Registrar Date

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

Degree Requirements:

- 120 semester hours total (A minimum of 28 taken at MSC)
- 40 upper division credits (A minimum of 15 taken within the major at MSC)
- 2.00 cumulative GPA or higher in all MSC coursework
- 2.50 cumulative GPA or higher in coursework toward the major content area. No more than one "D" may be used in completing major requirements.
- When filling out the program sheet a course can be used only once.
- Excess KINA courses beyond the two required and pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student's responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head.
- See the "Undergraduate Graduation Requirements" in the Mesa State College catalog for additional graduation information.

GENERAL EDUCATION REQUIREMENTS (31 Semester Hours)
See the current Mesa State College 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/Trns

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		

(ENGL 129, Honors English, may be substituted for ENGL 111 & ENGL 112.

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	151	Calculus I	5*		

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

Humanities (3 semester hours)

Social and Behavioral Sciences (6 semester hours)

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

History (3 semester hours)

HIST

Fine Arts (3 semester hours)

OTHER LOWER DIVISION REQUIREMENTS

Kinesiology (3 semester hours)

KINE	100	Health and Wellness	1		
KINA	1		1		
KINA	1		1		

Applied Studies (3 semester hours)

BACHELOR OF SCIENCE DEGREE DISTINCTION REQUIREMENTS (6 semester hours) Must receive a grade of "C" or better.

STAT	200	Probability and Statistics	3		

Humanities or Social/Behavioral Sciences: (3 semester hours)

COMPUTER SCIENCE MAJOR REQUIREMENTS
(52-53 semester hours) A 2.50 GPA is required in the major courses. No more than one "D" may be used in completing major requirements.

CSCI 111	Computer Science I	4		
CSCI 112	Computer Science II	4		
CSCI 241	Computer Architecture	3		
CSCI 250	Data Structures	3		
CSCI 321	Assembly Language Programming	3		
CSCI 330	Programming Languages	3		
CSCI 470	Operating Systems Design	3		
CSCI 484	Computer Networks	3		
CSCI 490	Software Engineering	3		
MATH 369	Discrete Structures I	3		
MATH 152	Calculus II	5		

Five courses from: CSCI 306, CSCI 333, CSCI 337, CSCI 375, CSCI 380, CSCI 445, CSCI 450, CSCI 460, CSCI 480, CSCI 486, MATH 361

Electives (All college level courses appearing on your final transcript, **not listed above** that will bring your total semester hours to 120 hours. Excludes KINA activity courses.) (23-24 semester hours; 7 hours of upper division may be needed.)

*MATH	151	Calculus	2		

SUGGESTED COURSE SEQUENCING FOR A MAJOR 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
CSCI 111	Computer Science I	4
MATH 151	Calculus I	5
ENGL 111	English Composition	3
KINE 100	Health and Wellness	1
General Education	Social/Behavioral Science	3
		16

Spring Semester		Hours
CSCI 112	Computer Science II	4
MATH 152	Calculus II	5
ENGL 112	English Composition	3
General Education	Social/Behavioral Science	3
KINA	Activity (2 courses)	2
		17

SOPHOMORE YEAR

Fall Semester		Hours
CSCI 250	Data Structures	3
General Education	History	3
Elective		3
General Education	Natural Science with Lab	4
General Education	Applied Studies	3
		16

Spring Semester		Hours
CSCI 241	Computer Architecture	3
STAT 200	Probability and Statistics	3
General Education	Natural Science	3
Elective		3
General Education	Humanities	3
		15

JUNIOR YEAR

Fall Semester		Hours
CSCI 321	Assembly Language Programming	3
CSCI 330	Programming Languages	3
General Education	Fine Arts	3
Elective		3
MATH 369	Discrete Structures	3
		15

Spring Semester		Hours
CSCI 470	Operating Systems Design	3
Computer Science	Choice	3
Computer Science	Choice	3
General Education	Social/Behavioral Science or Humanities	3
Elective		2-3
		14-15

SENIOR YEAR

Fall Semester		Hours
CSCI 484	Computer Networks	3
Computer Science	Choice	3
Computer Science	Choice	3
Upper Division	Elective	3
Elective		3
		15

Spring Semester		Hours
CSCI 490	Software Engineering	3
Computer Science	Choice	3
Elective		3
Elective		3
		12