

#### 2008 - 09 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:		_
	( )	
	, hereby certify that I have completed (or will listed for those courses is the final course grade received exceptext semester. I have indicated the semester in which I will comp	lete these courses.
Signature of Advisor	Date	20
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Signature of Department Head	Date	
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Signature of Registrar	Date	

Bachelor of Science: Computer Science

Posted 4/14/08

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.  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 a list of courses that fulfill the requirements below. If a course is on the general education ist of opions and a requirement for your major, you must use into fulfill the major requirements.  Course No Title  Seem. Sem.hrs Grade Term/Trns Course No Title  Sem.hrs Grade Term/Trns Course No Tit	Students should work closely with a faculty advisor when selecting and	scheduling courses prior to registra	ation.
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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	fulfill the requirements below. If a course is on the general education		
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	list of options and a requirement for your major, you must use it to fulfill		
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  ENGL 112 English Composition  ENGL 112 English Composition  ENGL 112 English Composition  ENGL 113 English Composition  ENGL 114 English Composition  ENGL 115 English Composition  ENGL 116 English Composition  ENGL 117 English Composition  ENGL 118 English Composition  ENGL 119 Honors English, may be substituted for ENGL 111 & ENGL 111 & ENGL 111 & ENGL 111 & ENGL 112 & ENGL 113 & ENGL 114 & ENGL 114 & ENGL 114 & ENGL 115 & ENGL 115 & ENGL 115 & EVENT COMPARISON (SCI 333, CSCI 337, CSCI 375, CSCI 380, CSCI 445, CSCI 450, CSCI 460, CSCI 480, CSCI 486, MATH 361 & EVENT COMPARISON (SCI 486, MATH 361 & EVENT COMPARISON (SCI 486, ENGL 1445, CSCI 450, CSCI 460, CSCI 486, ENGL 1445, CSCI 486, ENGL 1445, E			3
Course No Title	education requirement.		
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			3
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	Course No Title Sem.hrs Grade Term/Trns		
must be completed by the time the student has 60 semester hours.)  ENGL 111 English Composition 3			
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)  **MATH 152 Calculus II 5  **Five courses from: CSCI 306, CSCI 333, CSCI 375, CSCI 380, CSCI 445, CSCI 450, CSCI 460, CSCI 480, CSCI 486, MATH 361  **Social and Behavioral Ed requirements and 2 credits apply to elective credit  **Electives* (All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.) (24-25 semester hours; 7 hours of upper division may be needed.)  **MATH 151 Calculus 2  **MATH 151 Calculus 2  **MATH 151 Calculus 2  **MATH 151 Calculus 2			_
(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)  L  Five courses from: CSCI 306, CSCI 333, CSCI 337, CSCI 380, CSCI 445, 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.) (24-25 semester hours; 7 hours of upper division may be needed.)  *MATH 151 Calculus 2  Natural Sciences (7 semester hours, one course must include a lab)			
Five courses from: CSCI 306, CSCI 333, CSCI 337, CSCI 375, CSCI 380, CSCI 445, CSCI 450, CSCI 446, MATH 361  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)  L  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.) (24-25 semester hours; 7 hours of upper division may be needed.)  *MATH 151 Calculus 2		MATH 152 Calculus II	3
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)  Label 180, CSCI 445, CSCI 450, CSCI 460, CSCI 480, MATH 361  *380, CSCI 445, CSCI 450, CSCI 480, CSCI 480, MATH 361  *380, CSCI 445, CSCI 450, CSCI 480, CSCI 480, MATH 361  *380, CSCI 445, CSCI 450, CSCI 480, CSCI 4		Fixe courses from: CSCI 206 CSC	CI 222 CSCI 227 CSCI 275 CSCI
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)  L L Semester hours, must receive a grade of "C" or better, must be completed, must be completed by the time the student has 60 semester hours.)  Electives (All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.)  (24-25 semester hours; 7 hours of upper division may be needed.)  *MATH 151 Calculus 2  Natural Sciences (7 semester hours, one course must include a lab)	ENGL 112.		
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)  L  Electives (All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.)  (24-25 semester hours; 7 hours of upper division may be needed.)  *MATH 151 Calculus  2  —————————————————————————————————	Math: (3 semester hours must receive a grade of "C" or better must be	360, CBC1 443, CBC1 430, CBC1 400	0, CSCI 400, CSCI 400, MATH 501
**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)  **MATH 151 Calculus I 5*  **Electives (All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.) (24-25 semester hours; 7 hours of upper division may be needed.)  **MATH 151 Calculus 2			
*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)  L  L  Electives (All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.)  (24-25 semester hours; 7 hours of upper division may be needed.)  *MATH 151 Calculus  2  —————————————————————————————————			
Humanities (3 semester hours)  Social and Behavioral Sciences (6 semester hours)  Natural Sciences (7 semester hours, one course must include a lab)  L  Electives (All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.) (24-25 semester hours; 7 hours of upper division may be needed.)  *MATH 151 Calculus  2  —————————————————————————————————			
not listed above that will bring your total semester hours to 120 hours.) (24-25 semester hours; 7 hours of upper division may be needed.) *MATH 151 Calculus  2  Natural Sciences (7 semester hours, one course must include a lab)  L			
not listed above that will bring your total semester hours to 120 hours.) (24-25 semester hours; 7 hours of upper division may be needed.) *MATH 151 Calculus  2  Natural Sciences (7 semester hours, one course must include a lab)  L			
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Social and Behavioral Sciences (6 semester hours) *MATH 151 Calculus 2	··		
Natural Sciences (7 semester hours, one course must include a lab)			oper division may be needed.)
Natural Sciences (7 semester hours, one course must include a lab)	Social and Behavioral Sciences (6 semester hours)	*MATH 151 Calculus	2
Natural Sciences (7 semester hours, one course must include a lab)			
	N. 4. 10.1. (7		
	Natural Sciences (7 semester hours, one course must include a lab)		
History (3 semester hours)	L		
	<b>History</b> (3 semester hours)		

Bachelor of Science: Computer Science

Posted 4/14/08

**Fine Arts** (3 semester hours)

HIST \_\_\_\_\_

# 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 the assigned advisor and check the 2 year course matrix on the Mesa State website for course availability.

# FRESHMAN YEAR

Fall Semester		Hours	<b>Spring Semes</b>	ter	Hours
CSCI 111	Computer Science I	4	CSCI 112	Computer Science II	4
MATH 151	Calculus I	5	MATH 152	Calculus II	5
ENGL 111	English Composition	3	ENGL 112	English Composition	3
KINE 100	Health and Wellness	1	General Educa	tion Social/Behavioral Science	3
General Education	ral Education Social/Behavioral Science <u>3</u> KINA Activity (2 courses)		Activity (2 courses)	_2	
		16			17

# SOPHOMORE YEAR

Fall Semester	Hours Spring Semester		Hours
CSCI 250 Data Structures	3	CSCI 241 Computer Architecture	3
General Education History	3	STAT 200 Probability and Statistics	3
Elective	3	General Education Natural Science	3
General Education Natural Science with Lab	4	Elective	3
General Education Applied Studies	<u>3</u>	General Education Humanities	<u>3</u>
	16		15

# **JUNIOR YEAR**

Fall Semester		Hours	Spring Semester	Hours
CSCI 321	Assembly Language Programming	3	CSCI 470 Operating Systems Design	3
CSCI 330	Programming Languages	3	Computer Science Choice	3
General Educat	ion Fine Arts	3	Computer Science Choice	
Elective		3	General Education Social/Behavioral Science or Hum	anities 3
<b>MATH 369</b>	Discrete Structures	<u>3</u>	Elective	2-3
		15		14-15

### **SENIOR YEAR**

Fall Semester	Hours	Spring Semester	Hours
CSCI 484 Computer Networks	3	CSCI 490 Software Engineering	3
Computer Science Choice	3	Computer Science Choice	3
Computer Science Choice	3	Elective	3
Upper Division Elective	3	Elective	3
Elective	<u>3</u>		12
	15		

Bachelor of Science: Computer Science Posted 4/14/08

elor of Science: Computer Science 2008-2009 Program Sheet, Page 3 of 3