

DEPARTMENT OF COMPUTER SCIENCE

MSCS Program Sheet (2002-2003)

Real-World Computing Specialization

Name: _____ Adviser: _____ Date: _____

Student ID#: _____ Email: _____ Proposed date for degree conferral: _____ HCP? _____ Coterm? _____

GENERAL INSTRUCTIONS

Before the end of your first quarter, you should complete the following steps (detailed instructions are included in the *Guide to the MSCS Program Sheet* in your orientation packet):

- Complete this program sheet by filling in the number, name and units of each course you intend to use for your degree.
- Attach a course schedule showing the year and quarter in which you intend to take each course in your program sheet.
- Meet with your adviser and secure the necessary signatures on the program sheet.
- Submit the originals to the MS Program Administrator, Claire Stager, in Gates 182.

BREADTH REQUIREMENT

You must satisfy the requirements listed in each of the following areas; all courses taken elsewhere must be approved by your adviser. Do not enter anything in the “Units” column for courses taken elsewhere.

Note: If you are amending an old program sheet, enter “**on file**” in the approval column for courses that have already been approved.

Area A: Mathematical and theoretical foundations

Required:	Equivalent elsewhere (course number/title/institution)	Approval	Grade	Units
Statistics (Stat 116 or Man Sci & Eng 220)				
Automata and Complexity (CS154)				
Algorithmic Analysis (CS161)				

Choose one of:

Numerical Analysis (CS137 or CS237A)				
Logic (CS157, CS257, CS258, or Phil 160A)				
Mathematical Methods (CS205)				

Area B: Computer systems

Required:	Equivalent elsewhere (course number/title/institution)	Approval	Grade	Units
Computer Architecture (EE182 or EE282)				

Choose two of:

Operating Systems (CS140)				
Compilers (CS143)				
Computer Networks (CS244A or EE284)				

Area C: AI and applications

Choose two, including one at 200 level	Equivalent elsewhere (course number/title/institution)	Approval	Grade	Units
AI (CS121 or CS221)				
Databases (CS145 or CS245)				
Graphics (CS148 or CS248)				

TOTAL UNITS USED TO SATISFY BREADTH REQUIREMENT (AREAS A, B, AND C)

Note: This total may not exceed 21 units.

SEMINARS

You must take at least one 500-level seminar. No more than three units of seminars or 1-2 unit courses may be counted towards the MS degree:

Course number	Title	Grade	Units

TOTAL SEMINAR UNITS APPLIED TO MSCS

DEPTH UNITS FOR THE REAL-WORLD COMPUTING SPECIALIZATION

The courses you submit for your specialization must meet the following requirements:

(a) At least two of the following courses:

- ___ CS223A ___ CS223B ___ CS248

(b) At least three of the following:

- ___ CS205 ___ CS249 ___ CS326A ___ CS348C
 ___ CS237A ___ CS262 ___ CS348A ___ CS368
 ___ CS237B ___ CS277 ___ CS348B ___ CS374
 ___ CS237C

(c) A total of 21 units from categories (a), (b), and the following courses:

- ___ CS225A ___ CS247A ___ CS274 ___ CS448
 ___ CS225B ___ CS270 ___ CS327A ___ Psych 267
 ___ CS228 ___ CS271 ___ CS328
 ___ CS229 ___ CS272 ___ C336

Adviser Notes

Any deviations from the stated requirements must be noted and approved by your adviser in the Adviser Notes box provided. Enter course information for the courses you've selected in the table below. All specialization courses must be taken for a letter grade.

Course number	Title	Grade	Units
TOTAL SPECIALIZATION UNITS APPLIED TO MSCS			

ELECTIVES

List here any additional courses used to complete the 45-unit requirement for the MSCS degree.

Course number	Title	Grade	Units
TOTAL ELECTIVE UNITS APPLIED TO MSCS			

TOTAL UNITS APPLIED TO MSCS

ADDITIONAL REQUIREMENTS

- All courses submitted for the MSCS degree must be numbered 100 or greater.
- At most 21 units of introductory courses (CS100-109) or breadth requirements courses may be counted toward your 45 units.
- At least 36 units submitted for the MSCS degree, including all courses taken for your specialization, must be taken for a letter grade.
- The average grade in the courses submitted for the MSCS must be at least a B (3.0 in Stanford's GPA scale).
- Units previously applied toward BS requirements may not also be counted toward the MSCS.
- You must complete at least 45 graduate units at Stanford before receiving the MSCS degree.

Adviser's signature: _____ Date: _____

Department approval (Claire Stager): _____ Date: _____

FOR DEPARTMENT USE: UNITS _____ CR/NC _____ GPA _____