DEPARTMENT OF COMPUTER SCIENCE
MSCS Program Sheet (2008-09)
Database Systems 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 (an online version is available at cs.stanford.edu/Degrees/mscs/programsheets/):

- 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 and any breadth course waiver forms.
- 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 on a breadth course waiver form. 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**
Probability(CS109, Stat116, CME106, or MS&E220)				
Automata and Complexity (CS154)				
Algorithmic Analysis (CS161)				
Choose one of:				
Numerical Analysis (CME108 or CME302				
Logic (CS156, CS157, CS258, or Phil 251)				
Mathematical Methods (CS205A)				

Area B: Computer systems

Required:	**Equivalent elsewhere** (course number/title/institution)	**Approval**	**Grade**	**Units**
Computer Architecture (EE108B or EE282)				
Choose two of:				
Operating Systems (CS140)				
Compilers (CS143 or CS243)				
Computer Networks (CS144 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 CS seminar, or EE 380 or 385A. 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 DATABASE SYSTEMS SPECIALIZATION

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

(a) ____ CS245

(b) At least two of the following:

____ CS345 ____ CS346 (May be replaced with CS395 project with permission of Prof. Widom) ____ CS347

(c) At least four additional courses from category (b) and the following:

____ CS240	____ CS244C	____ CS270	____ CS315A
____ CS242	____ CS249A	____ CS271	____ CS321
____ CS243	____ CS249B	____ CS272	____ CS344
____ CS244	____ CS255	____ CS275	____ CS364B
____ CS244B	____ CS262	____ CS276	____ CS374

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 (must total at least 21 units)		

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 (CS100-110) 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_____