

# DEPARTMENT OF COMPUTER SCIENCE

## MSCS Program Sheet (2006-07)

### Artificial Intelligence 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/](http://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(Stat116,CME106,orMS&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 (CS205)				

**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)				
Computer Networks (CS244A or EE284)				

**Area C: AI and applications**

Required:	Equivalent elsewhere (course number/title/institution)	Approval	Grade	Units
Artificial Intelligence (CS221)				

**Choose one of:**

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 ARTIFICIAL INTELLIGENCE SPECIALIZATION**

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

a) At least four of the following courses:

- \_\_\_ CS222            \_\_\_ CS224M            \_\_\_ CS224U            \_\_\_ CS228
- \_\_\_ CS223A        \_\_\_ CS224N            \_\_\_ CS226            \_\_\_ CS229
- \_\_\_ CS223B        \_\_\_ CS224S            \_\_\_ CS227

(b) A total of 21 units from category (a) and the following courses. Courses with \* notation require approval of MS adviser:

- \_\_\_ CS205            \_\_\_ CS277            \_\_\_ CS377\*            \_\_\_ Man Sci 351
- \_\_\_ CS225A        \_\_\_ CS278            \_\_\_ CS379\*            \_\_\_ Man Sci 352
- \_\_\_ CS225B        \_\_\_ CS279            \_\_\_ Econ 286          \_\_\_ Man Sci 353
- \_\_\_ CS227B        \_\_\_ CS294A          \_\_\_ EE263            \_\_\_ Psych 202
- \_\_\_ CS256            \_\_\_ CS321            \_\_\_ EE376A            \_\_\_ Psych 205
- \_\_\_ CS262            \_\_\_ CS323            \_\_\_ Eng 205            \_\_\_ Stat 202
- \_\_\_ CS270            \_\_\_ CS324            \_\_\_ Eng 209A          \_\_\_ Stat 315A
- \_\_\_ CS273            \_\_\_ CS327A          \_\_\_ Ling 180          \_\_\_ Stat 315B
- \_\_\_ CS274            \_\_\_ CS328            \_\_\_ Man Sci 251
- \_\_\_ CS275            \_\_\_ CS329            \_\_\_ Man Sci 252
- \_\_\_ CS276            \_\_\_ CS374            \_\_\_ Man Sci 339

<b>Adviser Notes</b>
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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
<b>TOTAL SPECIALIZATION UNITS APPLIED TO MSCS (must total at least 21 units)</b>			

**ELECTIVES**

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

Course number	Title	Grade	Units
<b>TOTAL ELECTIVE UNITS APPLIED TO MSCS</b>			

**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 \_\_\_\_\_