DEPARTMENT OF COMPUTER SCIENCE  
MSCS Program Sheet (2000-2001)  
Human-Computer Interaction 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.
• Make copies of the completed program sheet and course schedule and return the originals to 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. 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

<table>
<thead>
<tr>
<th>Required:</th>
<th>Equivalent elsewhere (course number/title/institution)</th>
<th>Approval</th>
<th>Grade</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistics (Stat 116 or Man Sci &amp; Eng 220)</td>
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<tr>
<td>Automata and Complexity (CS154)</td>
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<tr>
<td>Algorithmic Analysis (CS161)</td>
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Choose one of:

<table>
<thead>
<tr>
<th>Equivalent elsewhere (course number/title/institution)</th>
<th>Approval</th>
<th>Grade</th>
<th>Units</th>
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<tbody>
<tr>
<td>Numerical analysis (CS137 or CS237A)</td>
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<tr>
<td>Logic (CS157, CS257, CS258, or Phil 160A)</td>
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### Area B: Computer systems

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<thead>
<tr>
<th>Required:</th>
<th>Equivalent elsewhere (course number/title/institution)</th>
<th>Approval</th>
<th>Grade</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Computer Architecture (EE182 or EE282)</td>
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Choose two of:

<table>
<thead>
<tr>
<th>Equivalent elsewhere (course number/title/institution)</th>
<th>Approval</th>
<th>Grade</th>
<th>Units</th>
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<tbody>
<tr>
<td>Operating Systems (CS140)</td>
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<tr>
<td>Compilers (CS143)</td>
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<tr>
<td>Computer Networks (CS244A or EE284)</td>
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### Area C: AI and applications

Choose two, including one at 200 level

<table>
<thead>
<tr>
<th>Equivalent elsewhere (course number/title/institution)</th>
<th>Approval</th>
<th>Grade</th>
<th>Units</th>
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<tbody>
<tr>
<td>AI (CS121 or CS221)</td>
<td></td>
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<tr>
<td>Databases (CS145 or CS245)</td>
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<tr>
<td>Graphics (CS148 or CS248)</td>
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</table>

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

### TRANSFER CREDITS

If you have taken courses as a graduate student, after the conferral of the bachelor’s degree, you may ask to transfer up to nine units of coursework to the MSCS requirements. Adviser approval is required. Attach a transcript showing the courses and grades earned.

<table>
<thead>
<tr>
<th>Course number</th>
<th>Title</th>
<th>Approval</th>
<th>Grade</th>
<th>Units</th>
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TOTAL TRANSFER UNITS APPLIED TO MSCS ________

### SEMINARS

You must take at least one and no more than three units of 500-level seminar:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Title</th>
<th>Grade</th>
<th>Units</th>
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TOTAL SEMINAR UNITS APPLIED TO MSCS ________
The courses you submit for your specialization must meet the following requirements:

(a) Each of the following courses:

- CS147
- CS247A
- CS247B

(b) At least six units from the following:

- CS148 or CS248
- CS377 (may be taken repeatedly)
- CS378
- CS447

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

- CS249
- Comm 269
- Man Sci 280
- Psych 203
- CS270A
- Comm 272
- Man Sci 284
- Psych 205
- CS270B
- Eng 145
- ME 101
- Psych 221
- CS272
- Ling 238
- ME 115
- Psych 267
- CS348A
- Man Sci 234
- ME 215
- CS348B
- Man Sci 273
- ME 313
- CS448

Any deviations from the stated requirements must be noted and approved by your adviser in the box provided. 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 the equivalent of three full-tuition quarters at Stanford before receiving the MSCS degree.

Adviser’s signature: ____________________________ Date: ____________

Department approval (Claire Stager): ____________________________ Date: ____________

FOR DEPARTMENT USE: UNITS _______ CR/NC_______ GPA _______ RESIDENCY.