GENERAL INSTRUCTIONS
Before the end of your first quarter, complete a program sheet by filling in the number, name and units of each course you intend to take for your degree. Program sheets, as well as foundation course waiver forms, may be submitted electronically on the Gates Information Network at http://gin.stanford.edu/ using your CS ID and password (click on the ‘Dashboard’ link). See http://cs.stanford.edu/degrees/mscs/programsheets/psguide1920.pdf for detailed instructions.

FOUNDATIONS 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 foundation 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.

**Required:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Equivalent elsewhere</th>
<th>Approval</th>
<th>Grade</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logic, Automata &amp; Complexity (CS103)</td>
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<tr>
<td>Probability (CS109, Stat116, CME106, or MS&amp;E220)</td>
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<td>Algorithmic Analysis (CS161)</td>
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<td>Computer Organ &amp; Sys (CS107 or 107E)</td>
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<tr>
<td>Principles of Computer Systems (CS110)</td>
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</tbody>
</table>

**TOTAL UNITS USED TO SATISFY FOUNDATIONS REQUIREMENT** (May not exceed 10 units.)

SIGNIFICANT IMPLEMENTATION REQUIREMENT
At least one course in your MS program should be designated as satisfying the "Significant Implementation Requirement". Note that this course will also be used to satisfy some other requirement (i.e., Breadth, Depth, or Elective). This requirement ensures that you have taken part in some form of substantial software development as part of the MSCS program. Letter grade only.

<table>
<thead>
<tr>
<th>Course Number:</th>
<th>Title:</th>
<th>Grade</th>
</tr>
</thead>
</table>

**Courses that may be used to satisfy the significant implementation requirement include:** CS 140, 140E, 143, 144, 145, 148, 190, 210B, 221, 227B, 243, 248, 341, and 346 (any deviations from this list must be approved by the faculty director of the CS MS program, Prof. Omer Reingold). Courses meeting the Significant Implementation Requirement must be taken at Stanford. Students who previously took at least two of these courses at Stanford as undergraduates may request a waiver of this requirement.

BREADTH REQUIREMENT
(Two courses minimum. Each course must be chosen from a different Area; no waivers allowed.)

<table>
<thead>
<tr>
<th>Course Number:</th>
<th>Title:</th>
<th>Grade</th>
<th>Units</th>
</tr>
</thead>
</table>

**TOTAL UNITS USED TO SATISFY BREADTH REQUIREMENT** *(Letter grades only, at least 3 units each)*

**Area A.** Mathematical and Theoretical Foundations: CS 154, 157, 168, 254, 258, 261, 265, 361; EE 364B; Phil 251

**Area B.** Computer Systems: CS 143, 144, 242, 243, 244, 244B, 316, 358; EE 180, 282, 284

**Area D.** Computing and Society: CS 181, 182, 384; ENGR 131, 248; ME 177; Man. Sci and Eng 193, 234
UNITS FOR THE BIOCOMPUTATION DEPTH

The courses you submit for your depth must meet the following requirements. Any deviations from the stated requirements must be noted and approved by your adviser in the Adviser Notes box provided (maximum of one adviser-approved deviation allowed). Courses taken for your Stanford undergraduate degree do not need to be repeated. A maximum of 6 units of independent study may be counted towards the depth (i.e., CS 393, 395, 399). Enter course selection in the table below:

a) At least four of: CS 235, 270, 272, 273A, 274, 279
b) A total of at least 21 units from category (a) and the following: CS 228, 229, 230, 231N, 233, 236, 245, 246, 261, 264, 265, 268, 273B, 275, 325, 341, 345, 371, 373, 375, 393*, 395*, 399*; AppPhys 293; Genetics 211 (courses with * notation require approval of MS adviser)

Course number  Title (Depth courses must be taken for at least 3 units.)  Grade  Units

TOTAL SPECIALIZATION UNITS APPLIED TO MSCS (must total at least 21 units)  Letter grades only.

ELECTIVES

List here any additional courses used to complete the 45-unit requirement for the MSCS degree. You may count up to a maximum of three units of 500-level CS seminars, CS300, EE380, EE385A, or other 1-2 unit seminars offered in the School of Engineering, as Electives toward the MS degree. Electives must be technical courses numbered above 100, related to the degree program, and approved by the adviser and MS program administrator. CS courses numbered above 110, excluding CS196 or CS198, are pre-approved as MS electives. Note that CS 129 may not be counted towards the MS if CS 229 is being counted towards any BS or MS requirement.

Course number  Title  Grade  Units

TOTAL ELECTIVE UNITS APPLIED TO MSCS

ADDITIONAL REQUIREMENTS

- All courses submitted for the MSCS degree must be numbered 100 or greater.
- At most 10 units of Foundations requirement courses may be counted toward your 45 units.
- At most 3 units of CS/EE/Engineering seminars may be counted toward your 45 units.
- At least 36 units submitted for the MSCS degree, including all courses taken for breadth and depth, 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: _________________________ Date: _________________________