

**DEPARTMENT OF COMPUTER SCIENCE**  
**MSCS Program Sheet (2014-15)**  
**Human-Computer Interaction Specialization: Dual Depth**

Name: \_\_\_\_\_ Adviser: \_\_\_\_\_ Date: \_\_\_\_\_

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

**GENERAL INSTRUCTIONS**

Before the end of your first quarter, complete this program sheet by filling in the number, name and units of each course you intend to take for your degree. Meet with your adviser to secure the necessary signatures on the program sheet and any foundation course waiver forms; submit originals to the MS Program Administrator in Gates 182. Forms may also be submitted electronically. A copy of this program sheet may be found on the Gates Information Network at <http://gin.stanford.edu/>, (click on 'Dashboard'), and foundation course waiver forms may be completed and submitted at <http://cs/education/masters/current-students/academic-forms>. See <http://cs.stanford.edu/degrees/mscs/programsheets/psguide1415.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:	Equivalent elsewhere (course numbers/titles/institution)	Approval	Grade	Units
Logic, Automata & Complexity (CS103)				
Probability (CS109, Stat116, CME106, or MS&E220)				
Algorithmic Analysis (CS161)				
Computer Organization & Systems (CS107)				
Principles of Computer Systems (CS110)				

**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 some other requirement (i.e., 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.

Course Number:	Title:	Grade

*Courses that may be used to satisfy the significant implementation requirement include:* CS 140, 143, 144, 145, 148, 210B, 221, 243, 248, 341, and 346 (any deviations from this list must be approved by the Associate Chair for Education). 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.

**UNITS FOR THE HUMAN-COMPUTER INTERACTION DUAL DEPTH SPECIALIZATION**

The dual depth specialization in Human-Computer Interaction (HCI) requires that you fulfill the requirements for an HCI primary depth (21 units), **and** a secondary depth in an area other than HCI (5 courses). The courses you submit for your primary 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). Circle your primary depth course selections and enter them in the lined table on the next page:

- a) CS 147 (students with equivalent course work may waive with adviser approval)
- b) One of: CS 247, 294H
- c) One of: CS 376, 448B
- d) One of: CS124, 142, 148
- e) One of: Psych 110, 252, 254; Comm 206, 268; Soc 257
- f) One of: ArtStudio 160; ME 203, 216A, 277, 377; any d.school course
- g) A total of at least 21 units from categories (a) through (f) and the following: ArtStudio 260; CS 224N, 224W, 229, 229A, 242, 246, 248, 295, 341, 393\*, 395\*, 399\*, 402, 476A (\* courses require approval of MS adviser), or any d.school class listed at <http://dschool.stanford.edu>, or any HCI class listed at <http://hci.stanford.edu/courses/>; such courses must be numbered 100 or above and be taken for at least 3 units to count for this requirement.

**Adviser Notes**

**HUMAN-COMPUTER INTERACTION PRIMARY DEPTH (21 UNITS MINIMUM)**

Course number	Title (Depth courses must be taken for at least 3 units.)	Grade	Units
<b>TOTAL PRIMARY DEPTH UNITS APPLIED TO MSCS (must total at least 21 units) Letter grades only.</b>			

**SECONDARY DEPTH COURSES (5 COURSES MINIMUM)**

SELECT ONE OF THE FOLLOWING SECONDARY DEPTH AREAS (CIRCLE ONE):

- ARTIFICIAL INTELLIGENCE      BIOCOMPUTATION      COMPUTER/NETWORK SECURITY      INFO MANAGEMENT & ANALYTICS  
 MOBILE & INTERNET COMPUTING      REAL-WORLD COMPUTING      SOFTWARE THEORY      SYSTEMS      THEORETICAL CS

Go to <http://cs.stanford.edu/degrees/mscs/programsheets/> and click on the ‘Secondary Depth Requirements’ link. Enter the numbers, titles and units for your Secondary Depth courses in the table below. **Five courses minimum**; no deviations or double-counting of units allowed:

Course number	Title (Depth courses must be taken for at least 3 units.)	Grade	Units
<b>TOTAL SECONDARY DEPTH UNITS APPLIED TO MSCS (must total at least 15 units) Letter grades only.</b>			

**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.

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 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 primary and secondary depth, must be taken 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 \_\_\_\_\_