Stanford University ◆ School of Engineering
Computer Science
Artificial Intelligence Track
2014-2015 Program Sheet
Final version of program sheet due to the department no later than one month prior to the last quarter of senior year.
Follow all requirements as stated for the year of the program sheet used.

Name: _____ SU ID #: _____
Phone: _____ Email: _____
Today's Date: _____ Month/Yr B.S. expected: _____

Mathematics and Science Requirement *(Delete courses and units not taken)*

Dept	Course	Title	✓ if Transfer	SoE Initials	Date	Unit	Grade
			Transfer/AP Approval by SoE				
Mathematics (26 units minimum)							
MATH	41	Calculus (see note 1)				5	
MATH	42	Calculus				5	
CS	103	Mathematical Foundations of Computing				5	
CS	109	Introduction to Probability for Computer Scientists				5	
Plus two electives (see note 2)							
				Mathematics Unit Total (26 units minimum)			
Science 11 units minimum)							
PHYS	41	Mechanics (or PHYS 21 or 61)				4	
PHYS	43	Electricity and Magnetism (or PHYS 23 or 63)				4	
		Elective (see note 3)					
				Science Unit Total (11 units minimum)			
				(37 units min. Math/Sci combined)			

Technology in Society Requirement *(1 course required; see UGHB Figure 3-3 for approved list; see note 10)*

Engineering Fundamentals *(13 units minimum)*

Dept	Course	Title				Unit	Grade
CS	106	Programming Abstractions (B or X)				5	
ENGR	40	Introductory Electronics (40A and 40M also allowed; see note 4)				5	
		Elective (See Fig. 3-4 in the UGHB for approved list; CS 106A, B or X not allowed)					
				Engineering Fundamentals Total (13 units minimum)			

NOTES

*   **All courses listed on this form must be taken for a letter grade (if offered) and can be included under only one category.**

*   This printed form must be signed by the departmental representative. Changes must be petitioned (see UGHB pg 27-29) and initialed in ink.

*   Minimum Grade Point Average (GPA) for all courses in ENGR Fundamentals and CS Core, Depth, and Senior Project (combined) is 2.0.

*   Transfer and AP credits in Math, Science, Fundamentals, & TIS must be approved by the SoE Dean's Office. Transfer credits in Computer Science Core, Depth and Senior Project must be approved by the Computer Science undergraduate program office.

*   Courses must be taken for the number of units on the Program Sheet. CS 103, 106B/X, 107, 109, 110 and 161 must be taken for 5 units.

(1)   Math 19, 20, 21 may be taken instead of Math 41& 42 as long as at least 26 math units are taken. AP Calculus must be approved by SoE.

(2)   Math electives: Math 51, 104, 108, 109, 110, 113; CS 157, 205A; PHIL 151; CME 100, 102, 104. Completion of Math 52 & 53 will (together) count as one Math elective. Restrictions: CS 157+ Phil 151 may not be used in combination to satisfy the Math electives requirement. Students who have taken both Math 51& 52 may not count CME 100 as an elective.

(3)   Any course of 3 or more units from the SoE Science List (Fig. 3-2 in the UGHB), PSYCH 30 or 55, or AP Chemistry may be used.

(4)   Students who take ENGR 40A or 40M for fewer than 5 units are required to take 1-2 additional units of ENGR Fundamentals (13 units minimum), or 1-2 additional units of Depth (27 units minimum for track and elective courses).

CS Artificial Intelligence Program Sheet (continued)

AI Track Core, Depth & Senior Project *(43 units min) No course may be listed twice; no double counting.*

Dept	Course	Title	Transfer/Deviation Approval by Dept			Unit	Grade
			✓ if Transfer	Dept Initials	Date		
Core (15 units minimum)							
CS	107	Computer Organization and Systems				5	
CS	110	Principles of Computer Systems				5	
CS	161	Design and Analysis of Algorithms				5	
Depth; Track and Electives (25 units and seven courses minimum)							
CS	221	AI: Principles and Techniques (Track Requirement A)				4	
CS		Track Requirement B (see note 5)					
CS		Track Requirement B (see note 5)					
		Track Requirement C (see note 6)					
		Elective (see note 7)					
		Elective (see note 7)					
		Elective (see note 7)					
		Optional Elective					
Senior Project (1 course required)							
CS		At least 3 units of 191, 191W, 194, 194W, 210B, 294 or 294W *(see note 9)*				3	
		Computer Science Core, Depth and Senior Project Total (43 units minimum)					

Program Approvals

Departmental
Printed Name: _____ Date: _____

Signature: _____

School of Engineering (No action required-office use only)
Printed Name: _____ Date: _____

Signature: _____

NOTES (continued from page 1)

(5)   Track Requirement B: Any two of CS 223A, 224M, 224N, 228, 229, 131 or 231A

(6)   Track Requirement C: One additional course from the Track Requirement B list, or from the following: CS 124, 205A, 222, 224S, 224U, 224W, 225A, 225B, 227B, 231A (if not taken for Track Requirement B), 231B, 231M, 262, 276, 277, 279, 327A, 329 (with advisor approval), 331A, 374, 379 (with advisor approval); EE 263, 376A; ENGR 205, ENGR 209A; MS&E 251, 351; STATS 315A, 315B

(7)   Track Electives: At least three add'l courses selected from the Track Req't B list, C list, the General CS Electives list (see Note 8) or the following: CS 238, 275, 278, CS334A or EE 364A; EE 364B; ECON 286; MS&E 252, 352, 355; PHIL 152; PSYCH 202, 204A, 204B; STATS 200, 202, 205

(8)   General CS Electives: CS 108, 124, 131, 140, 142, 143, 144, 145, 147, 148, 149, 154, 155, 156, 157 (or PHIL 151), 164, 166, 167,168, 190, 205A, 205B, 210A, 222, 223A, 224M, 224N, 224S, 224U, 224W, 225A, 225B, 227B, 228, 228T, 229, 229A, 229T, 231A, 231B, 231M, 232, 235, 240, 240H, 241, 242, 243, 244, 244B, 245, 246, 247, 248, 249A, 249B, 254, 255, 258, 261, 262, 263, 264, 265, 266, 267, 270, 271, 272, 173 or 273A, 274, 276, 277, 279, 295, 348B; CME 108; EE 180, 282, 364A

(9)   The WIM requirement may be met by taking CS 181W as a Technology in Society course or through the Senior Project course (CS 191W, 194W, 210B, or 294W only).