Stanford University • School of Engineering

Computer Science Individually Designed Track 2012-2013 Program Sheet

Final version of program sheet due to the department no later than one month prior to the last quarter of senior year.

		rollow all requirements as stated for the year of t			useu.		
	Name:		SU ID:				
Phone:			Email				
Today's Date:			<u>/lo</u> nth/Yr B.:	S. expected:			
Mathe	ematics	s and Science Requirement (Delete courses and units r	not taken)				
Dept	Course		Transfer/AP Approval by SoE			Unit	Grade
			√ if	SoE Initials	Date	Ullit	Grade
Mathematics		(26 units minimum)	Transfer				
MATH	41	Calculus (see note 1)				5	
MATH	42	Calculus				5	
CS	103	Mathematical Foundations of Computing (see note 2)				5	
CS	109	Introduction to Probability for Computer Scientists (see note 3)				5	
Plus tw	o elective	es (see note 4)					
			Mathematics L	Jnit Total (26 uni	ts minimum)		
Scien	ce 11 u	nits minimum)					
PHYS	41	Mechanics (or PHYS 21 or 61)				4	
PHYS	43	Electricity and Magnetism (or PHYS 23 or 63)				4	
		Elective (see note 5)				3 to 5	
			Science U	Jnit Total (11 uni	ts minimum)		
			(37 units n	nin. Math/Sci d	combined)		
Techr	nology	in Society Requirement (1 course required; see UGHB Figure	•		· L		
Engin	eering	Fundamentals (13 units minimum)					
CS		Programming Abstractions (B or X)				5	
ENGR		Introductory Electronics (one of ENGR 40N or 40P also allowed)				5	
		Elective (see note 6; neither CS 106A, B, and X, nor 2nd E40 class a	allowed)			3 to 5	
		Engineering Fund	•	otal (13 units	minimum)		

NOTES

- * All courses listed on this form must be taken for a letter grade (if offered); and listed only once.
- * 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.
- * All courses listed on this form may only be included under one category. Delete courses not taken.
- (1) Math 19, 20 and 21 may be taken instead of Math 41 and 42 as long as at least 26 math units are taken.
- (2) Students who took CS 103X are required to complete one additional unit in depth (I.e., 26 units minimum for track and elective courses).
- (3) Students who complete STATS 116, MS&E 120, or CME 106 in *Winter 2008-09 or earlier* may count that course as satisfying the CS 109 requirement. These same courses taken in *Spring 2008-09 or later* cannot be used to satisfy the CS 109 requirement.
- (4) 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 and 52 may not count CME 100 as an elective.
- (5) 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.
- (6) One course required; may not be CS 106A, B or X. See Engineering Fundamentals Fig. 3-4 in the UGHB for approved list.

program sheet continued on page 2

CS Individually Designed Track Program Sheet (continued)

Individually Designed Track Core, Depth and Senior Project (43 units minimum)

Be advised, no course may be listed twice on the sheet; no double-counting.

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Dept	Course	Title	Transfer/[Transfer/Deviation Approval by Dept			Crada
			√ if	Dept Initials	Date	Unit	Grade
Core (1	5 units r	ninimum)	Transfer		•		
CS	107	Computer Organization and Systems				5	
CS	110	Principles of Computer Systems (see note 7)				5	
CS	161	Design and Analysis of Algorithms (see note 8)				5	
Depth;	Track ar	nd Electives (25 units and seven courses minimum) see note 9					
Senior I	Project (1 course required)					
CS		At least 3 units of 191, 191W, 194, 194W, 210B, 294 or 294W (see	note 10)			3	
		Computer Science Core, Depth and Se	nior Project T	otal (43 units	minimum)		
Progra	am Ap _l	provals					
Under	gradu	ate Advisor					
Printed Name:				Date:			
Signatu	re:						
5							
Depar Printed							
Signatu	re:			Date:			
Schoo	l of En	gingaring (signature not required prior to graduation)					
Printed		gineering (signature not required prior to graduation)		Date:			
				2 dto.			
Signatu	e:						

NOTES (continued from page 1)

- (7) Students who complete CS108 and either CS 140 or CS 143 by Winter Quarter 2008-09 or earlier may choose to count CS 108 as satisfying the CS 110 requirement. In such a case, CS 108 may not also be counted as an elective and the student will be required to complete one additional unit in their depth courses (i.e., 26 units minimum for track and elective courses).
- (8) Students who took CS161 for 4 units are reg'd to complete one add'l unit in their depth courses (I.e. 26 units min for track & elective courses).
- (9) Students may propose an Individually Designed Track. Proposals should include a minimum of seven courses, at least four of which must be CS courses numbered 100 or above. Proposals must be submitted & approved at least two quarters before graduation. To create an individually designed program, students should complete an *Individually Designed Track* program sheet and seek approval from their undergrad advisor and from the Associate Chair for Education, Prof. Mehran Sahami. Proposals will be evaluated for coherence and rigor. Approved program sheets should be given to the staff in the CS undergraduate program office. Any subsequent changes must go through the same proposal and approval process.
- (10) The WIM requirement for Freshmen and Transfer students entering Fall 96 or later may be met by taking CS 181W as a Technology in Society Society course or through the Senior Project course (191W, 194W, 210B, or 294W only).