Stanford University • School of Engineering

Computer Science Individually Designed Track 2015-2016 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. ______SU ID #: Phone: Email Today's Date: Month/Yr B.S. expected:

	Course	Title	Transf	Transfer/AP Approval by SoE			
Dept			√ if	SoE Initials	Date	Unit	Grade
/athe	matics	(26 units minimum)	Transfer				
1ATH	41	Calculus (see note 1)				5	
1ATH	42	Calculus				5	
S	103	Mathematical Foundations of Computing				5	
S	109	Introduction to Probability for Computer Scientists				5	
Plus tw	o elective	s (see note 2)					
			Mathematic	cs Unit Total (26 ເ	ınits minimum)		
Scien	ce 11 ui	nits minimum)					
HYS	41	Mechanics (or PHYS 21 or 61)				4	
PHYS	43	Electricity and Magnetism (or PHYS 23 or 63)				4	
		Elective (see note 3)				3 to 5	
			Scien	Science Unit Total (11 units minimum)			
			(37 units	s min. Math/Sc	i combined)		
echr	ology	in Society Requirement (1 course required; see UG	HB Figure 3-3 for	r approved list,	see note 7)	
Engin	eering	Fundamentals (13 units minimum)					
S		Programming Abstractions (B or X)				5	
ENGR		Introductory Electronics (ENGR 40A and 40M also allowed	ed; see note 4)			5	
	Elective (see note 5; neither CS 106A, B, and X, nor 2nd E40 class allowed)					3 to 5	

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. CS103, 106B/X, 107, 109, 110, and 161 must be taken for 5 units.
- Math 19, 20 and 21 may be taken instead of Math 41 and 42 as long as at least 26 math units are taken. (1)
- 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) (2) 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.
- 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).
- One course required; may not be CS 106A, B or X. See Engineering Fundamentals Fig. 3-4 in the UGHB for approved list.

CS 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/Deviation Approval by Dept			Unit	Grade					
Бері	Course	Tiue	√ if	Dept Initials	Date	Offic	Grade					
Core (1	5 units n	ninimum)	Transfer									
CS	107or107E	Computer Organization and Systems				5						
CS	110	Principles of Computer Systems				5						
CS CS CS	161	Design and Analysis of Algorithms				5						
Depth; Track and Electives (25 units and seven courses minimum) see note 6												
	Project (1 course required)										
CS		At least 3 units of 191, 191W, 194, 194W, 210B, 294 or 294W	(see note 7)			3						
		Computer Science Core, Depth and Se	enior Projec	ct Total (43 uni	ts minimum)							
Progr	am Apı	provals										
Undergraduate Advisor												
Printed	Name:		-	Date:								
Signature:												
Denai	rtment											
Printed Name:												
			-									
Signatu	ire.			Date:								
Signature:			-	Date.								

NOTES (continued from page 1)

Printed Name:

Signature:

School of Engineering (No action required-office use only)

(6) 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 individually designed program, students should complete an *Individually Designed Track* program sheet and seek approval from t 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.

Date: ___

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