Stanford University • School of Engineering

Computer Science Systems Track

2016-2017 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:								
Today's Date:			Month/Yr B.S. expected:					
natics a	nd Science Requirement (Delete courses and unit	s not tak	en)					
		Transfer/AP Approval by SoE			Linit	Grade		
Course		√ if	SoE Initials	Date	Ullit	Grade		
natics (2	6 units minimum)	Transfer						
19	Calculus (see note 1)				3			
20	Calculus				3			
21	Calculus				4			
103	Mathematical Foundations of Computing				5			
109	Introduction to Probability for Computer Scientists				5			
electives (s	see note 2)							
		Mathematic	cs Unit Total (26 t	units minimum)				
(11 uni	ts minimum)							
41	Mechanics (or PHYS 21 or 61)				4			
43	Electricity and Magnetism (or PHYS 23 or 63)				4			
	Elective (see note 3)							
		Scienc	ce Unit Total (11 t	units minimum)				
		(37 units	s min. Math/So	ci combined)				
logy in	Society Requirement (1 course required; see UGHB Figur	e 3-3 for ap	oproved list; s	ee note 8)				
ering Fu	undamentals (13 units minimum)	•	-					
					5			
	<u> </u>	4)			5			
			t allowed)					
	Phone: ay's Date: natics a Course natics (2 19 20 21 103 109 electives (s 41 43 logy in ering Fu 106	natics and Science Requirement (Delete courses and unit Course Title To Calculus (see note 1) To Calculus (see note 2) To Calculus To Calculus (see note 2) To Calculus To Calcul	Phone:	Phone:	Phone: ay's Date: Month/Yr B.S. expected: Transfer/AP Approval by SoE atics (26 units minimum) Transfer 19 Calculus (see note 1) 20 Calculus 103 Mathematical Foundations of Computing 109 Introduction to Probability for Computer Scientists 104 Mathematics Unit Total (26 units minimum) 11 units minimum) 12 Mathematics (or PHYS 21 or 61) 43 Electricity and Magnetism (or PHYS 23 or 63) Elective (see note 3) Science Unit Total (11 units minimum) 106 Programming Abstractions (B or X) 40 Introductory Electronics (40A and 40M also allowed; see note 4)	Phone		

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.

Engineering Fundamentals Total (13 units minimum)

- * 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.
- (1) Math 41, 42 may be taken instead of Math 19, 20, 21 as long as at least 26 math units are taken.
- (2) Math electives: Math 51, 104, 108, 109, 110, 113; CS 157, 205A; PHIL 151; CME 100, 102,103 (or EE 103), 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 Systems Track Program Sheet (continued)

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

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

Dept	Course	Title	Transfer/Deviation Approval by Dept			1.124	0
			√ if	Dept Initials	Date	Unit	Grade
Core (15	units mini	imum)	Transfer		•	•	
CS	107or107E	Computer Organization and Systems				5	
CS	110	Principlets of Computer Systems				5	
CS	161	Design and Analysis of Algorithms				5	
Depth; Tr	ack and E	Electives (25 units and seven courses minimum)			•	•	
CS	140	Operating Sys and Systems Program (Track Requirement A)				4	
		One of: CS 143, EE 180 (Track Requirement B)					
CS		Track Requirement C (see note 5)					
CS		Track Requirement C (see note 5)					
		Elective (see note 6)					
		Elective (see note 6)					
		Elective (see note 6)					
		Optional Elective					
Senior Pr	oject (1 c	ourse required)	•		•	•	
CS		At least 3 units of 191, 191W, 194, 194H, 194W, 210B, 294 or 294W (see note 8)			3		
		Computer Science Core, Depth and Se	nior Projec	t Total (43 unit	s minimum)	ĺ	

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 C: Two courses selected from the Track Requirement B list or the following: CS 144, 145, 149, 155, 240, 242, 243, 244, 245; EE 271, 282
- (6) Track Electives: At least 3 additional courses selected from the Track Requirement C list, the General CS Electives list (see note 7), or the following CS 240E, 241, 244E, 316, 341, 343, 344 (3 or more units, any suffix), 345, 346, 347, 349 (with permission of undergraduate advisor), CS 448; EE 108, 382C, 384A, 384B, 384C, 384S, 384X
- (7) General CS Electives: CS 108, 124, 131, 142, 143, 144, 145, 147, 148, 149, 154, 155, 157 or Phil 151, 164, 166, 167, 168, 190, 205A, 205B, 210A, 221, 223A, 224N, 224S, 224U, 224W, 225A, 227B, 228, 229, 229T, 231A, 231B, 231M, 231N, 232, 233, 240, 240H, 242, 243, 244, 244B, 245, 246, 247, 248, 249A, 251, 254, 255, 261, 262, 263, 264, 265, 266, 267, 270, 272, 273A, 273B, 274, 276, 279, 348B, 348C; CME 108; EE 180, 282, 364A
- (8) 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).