Stanford University • School of Engineering

Computer Science Systems Track

2017-2018 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:						
Mathen	natics a	nd Science Requirement (Delete courses and unit	- ts not tak	en)					
Dept		Title	Transfer/AP Approval by SoE			l lm:4	Crada		
			√ if	SoE Initials	Date	Unit	Grade		
Mather	natics (2	6 units minimum)	Transfer						
MATH		Calculus (see note 1)							
CS CS	103	Mathematical Foundations of Computing							
CS	109	Introduction to Probability for Computer Scientists							
Plus two e	electives (s	see note 2)							
			Mathematic	cs Unit Total (26	units minimum)]		
Science	(11 uni	ts minimum)							
PHYS		Mechanics (or PHYS 21 or 61)							
PHYS	43	Electricity and Magnetism (or PHYS 23 or 63)							
		Elective (see note 3)							
			Science Unit Total (11 units minimum)						
			(37 units	37 units min. Math/Sci combined)					
Techno	logy in	Society Requirement (1 course req'd; course must be on a	Approved li	st in UGHB Fi	g. 4-3 the ye	ar taken;	see note 9)		
Engine	ering Fu	undamentals (13 units minimum)							
CS		Programming Abstractions (B or X)							
ENGR	40M or 40A	Introductory Electronics (ENGR 40 also allowed; see note 4)							
		Elective: May be an ENGR Fundamentals or an additional CS	Depth cou	rse (see note	5)				
		Engineering Fu	ındamentals	Total (13 uni	ts 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. CS103, 106B/X, 107, 109, 110, and 161 must be taken for 5 units.
- (1) Math 19/20/21 or Math 41/42 or AP credit may be used, 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, 102,103 (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 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 (26-27 units minimum for track and elective courses).
- (5) See Fig. 3-4 in the UGHB for approved ENGR Fundamentals list. May not be any CS 106.

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.

Dont	Course	Title	Transfer/Deviation Approval by Dept Unit				Grade		
Dept			√ if	Dept Initials	Date	Offic	Grade		
Core (15 units minimum)									
CS		Computer Organization and Systems							
CS		Principlets of Computer Systems							
CS	161	Design and Analysis of Algorithms							
		lectives (25 units and seven courses minimum)							
CS	140or140E	Operating Sys and Systems Program (Track Requirement A)							
		One of: CS 143, EE 180 (Track Requirement B)							
CS		Track Requirement C (see note 6)							
CS		Track Requirement C (see note 6)							
		Elective (see note 7)							
		Elective (see note 7)							
		Elective (see note 7)							
		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 9)							
		Computer Science Core, Depth and Se.	nior Projec	t Total (43 uni	its minimum)				
Progran	m Appro	ovals							
Departn	nental								
Printed Name:			Date:						
Signature	:		-						
Cohool	of Englis	coring (No action required office use only)							
School of Engineering (No action required-office use only)				Deter					
Printed Name:			Date:						
Cianatura									
Signature									

NOTES (continued from page 1)

- (6) Track Requirement C: Two courses selected from the Track Requirement B list or the following: CS 144, 145, 149, 155, 190, 240, 242, 243, 244, 245; EE 271, 282
- (7) Track Electives: At least 3 additional courses selected from the Track Requirement C list, the General CS Electives list (see note 8), 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
- (8) 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, 234, 238, 240, 240H, 242, 243, 244, 244B, 245, 246, 247, 248, 249A, 251, 254, 255, 261, 262, 263, 264, 265, 266, 267, 269I, 270, 272, 273A, 273B, 274, 276, 279, 348B, 348C, 352; 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 (191W, 194W, 210B, or 294W only).