Stanford University • School of Engineering

Computer Science Information 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	of the pr	ogram she	et used.		
Name:		•	SU ID#:	_			
	Phone:		Email:				
To	day's Date:	M	Month/Yr B.S. expected:				
Mathe	ematics a	nd Science Requirement (Delete courses and units	s not tak	en)			
Dept	Course	Title	Transfer/AP Approval by SoE			1.114	Cando
			√ if	SoE Initials	Date	Unit	Grade
Mathematics (26 units minimum)			Transfer	•	•	•	
MATH	19	Calculus (see note 1)				3	
MATH	20	Calculus				3	
MATH	21	Calculus				4	
CS	103	Mathematical Foundations of Computing				5	
CS	109	Introduction to Probability for Computer Scientists				5	
Plus tw	o electives (s						
			Mathematic	s Unit Total (26 u	nits minimum)		
Scien	ce (11 uni	ts 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)					
	•		Scienc	ce Unit Total (11 u	nits minimum)		
			(37 units	min. Math/Sc	i combined)		
Techr	nology in	Society Requirement (1 course required; see UGHB Figure	e 3-3 for a	oproved list; se	ee note 8)		
Engin	neering F	undamentals (13 units minimum)		•	•	•	
CS		Programming Abstractions (B or X)				5	
ENGR	40	Introductory Electronics (40A and 40M also allowed; see note 4	1)			5	
		Elective (see Fig. 3-4 in the UGHB for approved list; CS 106A,	B, or X no	t allowed)			
		Engineering Fur	damentals	Total (13 unit	s 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.
- * The 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 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 req't. 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 Information Track Program Sheet (continued)

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

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

D 1	Course	d: no course may be listed twice on the sheet; no double- Title	<u>_</u>	Transfer/Deviation Approval by Dept			
Dept			√ if	Dept Initials	Date	Unit	Grade
Core (15 units minimum)		Transfer		•	•		
CS	107 or 107E	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	124	From Languages to Information (Track Requirement A)				4	
CS	145	Introduction to Databases (Track Requirement A)				4	
CS		Track Requirement B (see note 5)					
CS		Track Requirement B (see note 5)					
		Elective (see note 6)					
		Elective (see note 6)					
		Elective (see note 6)					
		Optional Elective					
Senior	Project (1 d	course required)		-	-	-	
CS		At least 3 units of 191, 191W, 194, 194H, 194W, 294 or 294W (see note 8)			3		
		Computer Science Core, Depth and	Senior Projec	t Total (43 unit	s minimum)		
					_		
Prog	ram Appr	ovals					
Depa	rtmental						
Printed	l Name:		Date:				
Printed	i Name:		_	Date: _			

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

NOTES (continued from page 1)

- (5) Track Requirement B: Two courses, each from a different area: Area I) Information-based AI applications [CS 224N, 224S, 229, 233]; Area II) Database and Information Systems [CS 140, 142, 245, 246, 341, 345, 346, 347]; Area III) Information Systems in Biology [CS 262, 270, 274]; Area IV) Information Systems on the Web [CS 224W, 276]
- (6) Track Electives: At least three additional courses selected from the Track Requirement B list, or the General CS Electives list (see note 7).
- (7) General CS Electives: CS 108, 131, 140, 142, 143, 144, 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).