Stanford University • School of Engineering Computer Science Information Track 2008-2009 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.

Email:				Local Phone:			
Date:			Da	ite B.S. expected:			
Mathen	natics an	d Science Requirement (Delete courses and units	not take	en)			
Dept	Course	Title	Transfer/AP Approval			Lloit	Crada
			√ if	Initials	Date	Unit	Grade
Mathematics (26 units minimum)							
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 two e	electives (se	e note 4)					
			Mather	matics Unit Total (26 un	its minimum)		
Science	11 units	minimum)					
PHYSICS		Mechanics				4	
PHYSICS	43	Electricity and Magnetism				4	
		Elective (see note 5)				3 to 5	
			Sc	cience Unit Total (11 un	its minimum)		
			(37 L	ınits min. Math/Sci	combined)		
Techno	logy in S	Society Requirement (1 course required; see UGHB Figure	3-3 for ap	proved list; see no	te 12)		

NOTES

CS ENGR Name:

* This form is available as an Excel file at http://ughb.stanford.edu/. The printed form must be signed by the departmental representative. Changes must be initialed in ink

Engineering Fundamentals Total (13 units minimum)

5

5

3 to 5

* All courses listed on this form must be taken for a letter grade if offered by the instructor.

Engineering Fundamentals (13 units minimum)

40 Introductory Electronics

Elective (see note 6)

106 Programming Abstractions (B or X)

- * Minimum Grade Point Average (GPA) for all courses in Engineering Fundamentals and Computer Science 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 have taken either CS 103X or CS 103A, B are considered to have satisfied the CS 103 requirement. Students who took CS 103X are required to complete one additional unit in their depth courses (i.e., 27 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) The Mathematics electives list consists of: Math 51, 103, 104, 108, 109, 110, 113; CS 156, 157, 205A; Phil 151; CME 100, 102, 104. Completion of Math 52 and 53 will (together) count as one Math elective. Restrictions: Math 51 and Math 103, or Math 51 and CME 100, or Math 103 and Math 113, or CS 157 and Phil 151, may not be used in combination to satisfy the Math electives requirement.
- (5) Any course of 3 or more units from the SoE Science List (Fig. 3-2 in the UGHB), plus Psych 30 or 55. AP Chem also meets this requirement. Either of the physics sequences 21/23 or 61/63 may be substituted for 41/43 as long as at least 11 science units are taken.
- (6) One course required; may not be CS 106A, B or X. See Engineering Fundamentals Fig. 3-4 in the UGHB for approved list.

Computer Science Program Sheet (continued)

Information 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/AP Approval			Unit	Grade
			✓ if	Initials	Date] Ullit	Grade
Core (14 units minimum)							
CS	107	Computer Organization and Systems (see note 7)				5	
CS	110	Principlets of Computer Systems (see note 8)				5	
CS		Design and Analysis of Algorithms				4	
	rack and El	ectives (26 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 9)				3 to 5	
CS		Track Requirement B (see note 9)				3 to 5	
		Elective (see note 10)				3 to 5	
		Elective (see note 10)				3 to 5	
		Elective (see note 10)				3 to 5	
		Optional Elective					
Senior P	roject (1 co	urse required)			· ·		
CS		At least 3 units of 191, 191W, 194, 294 or 294W (see note 12)				3	
		0 / 0 / 0 / 0				. I	1

Computer Science Core, Depth and Senior Project Total (43 units minimum)

Program Approvals					
Departmental					
Printed Name:	Date:				
Signature:	<u></u>				
School of Engineering (signature not required prior to graduation	n)				
Printed Name:	Date:				
Signature:	<u> </u>				

NOTES (continued from page 1)

- (7) The name of CS 107 has changed. The previous CS 107 course titled *Programming Paradigms* also fulfills this requirement.
- (8) 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., 27 units minimum for track and elective courses).
- (9) Track Requirement B: Two courses, each from a different area: Area I) Information-based AI applications [CS 224N, 224S, 229]; Area ii) Database and information systems [CS 140, 240D, 245, 345, 346, 347]; Area iii) Information systems in biology [CS 262, 270, 274]; Area iv) Information systems on the web [CS 276, 364B]
- (10) Track Electives: At least three additional courses selected from the Track Requirement B list, or the General CS Electives list (see note 11).
- (11) General CS Electives: CS 108, 121 or 221*, 140, 142, 143, 144, 147, 148, 154, 155, 156, 157 (or Phil 151)*, 164, 205A, 205B, 222, 223A, 223B, 224M, 224N, 224S, 224U, 225A, 225B, 226, 227, 228, 228T, 229, 240, 242, 243, 244, 244B, 245, 247, 248, 249A, 249B, 255, 256, 257, 258, 261, 262, 270, 271, 272, 273A, 274, 276, 277, 295; CME 108; EE 108B, 282 *(Students may not count both CS121 and 221, or both CS157 and Phil 151, toward their major requirements.)
- (12) The WIM requirement for Freshmen and Transfer students entering Fall 96 or later may be met by taking CS 181 as a Technology in Society course or through the Senior Project course (191W, 194, or 294W only).