Stanford University * School of Engineering

Computer Systems Engineering - Networking Specialization 2008-2009 Program Sheet

Final version of completed and signed 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:		p g	SU ID:		•		
	Email:		Local Phone:					
	Date:		Date B.S. expected:					
Mathema	tics and Sc	ience Requirement						
Dept	Course	Title	Trans	Transfer/AP Approval		11.11	0 1	
			✓ if	Initials	Date	Unit	Grade	
Mathemat	tics (25 units	minimum)	Transfer	•	•	•		
MATH	41	Calculus				5		
MATH	42	Calculus				5		
MATH	51	Calculus				5		
MATH	52 or 53	Calculus				5		
CS	109	Introduction to Probability for Computer Scientists ¹				5		
Science (12 units mini		natics Unit Tot	al (25 units mi	nimum)			
PHYSICS		Mechanics				4		
PHYSICS	43	Electricity and Magnetism				4		
PHYSICS		Light and Heat				4		
Science Unit Total (12 units minimum)								
		Mathematics and So	cience Unit Tot	al (37 units mi	nimum)			
Technolo	ay in Socie	ty Requirement (1 course required; see UGHB Fig.	2 2 for appr	ovad list)	•			
recimolo	gy III 300le	ty Requirement (1 course required, see OGHB Fig.	3-3 IOI appl	oved list)				
		nentals (13 units minimum)						
CS		Programming Abstractions (B or X)				5		
ENGR	40	Introductory Electronics				5		
		Elective (see UGHB Fig.3-4; 1 course required; may not be CS 10	6A, B or X)					
		Engineering Fundamer	ntals Total (1	13 units min	imum)			

NOTES

- * 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.
- * All courses listed on this form must be taken for a letter grade if offered by the instructor.
- * Minimum Grade Point Average (GPA) for all courses in Engineering Fundamentals and Computer Systems Engineering Core and Depth (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 Systems Engineering Core and Depth must be approved by the Computer Science undergraduate program representative. Transfer credit information and petitions are available at
- * All courses listed on this form must only be included under one category. Delete courses not taken.
- (1) 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.

Computer Systems Engineering Program Sheet (continued)

Computer Systems Engineering (54 units minimum)

Compate	i Oysteinis E										
Dept	Course	Title	Transfer/AP Approval			Unit	Grade				
			√ if	Initials	Date	Onit	Crade				
Core (32 i	units minimu	m)	Transfer								
CS	103	Mathematical Foundations of Computing ²				5					
CS	107	Computer Organization and Systems ³				5					
CS	108 or 110	Object-Oriented Systems Design, or Principles of Comp S	Sys			4 or 5					
EE	102A	Signals and Systems I				4					
EE	102B	Signals and Systems II				4					
EE	108A	Digital Systems I				4					
EE	108B	Digital Systems II				3 or 4					
Senior Proje		CS191, 191W, 194, 294 or 294W (see notes4, 5)				3					
Computer Systems Engineering Core Total (32 units minimum)											
Depth (20 units minimum) Be advised, no course may be listed twice on the sheet. No double-counting.											
CS	140	Operating Systems				4					
CS	144	Introduction to Computer Networking				4					
Plus four to five of the following (see note 6; delete courses not taken)											
		Introduction to Computer Vision				3					
CS	240E	Embedded Wireless Systems				3					
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	240X	Advanced Operating SystemsII				3					
CS	244	Advanced Topics in Networking				4					
CS	244B	Distributed Systems				3					
CS		Low-Power Wireless Networking				3					
CS	249A	OOP from a Modeling and Simulation Perspective				3					
CS	249B	Advanced Object-Oriented Programming				3					
EE	179	Introduction to Communication				3					
EE	276	Introduction to Wireless Personal Communications				3					
		Computer Systems Engineering Dep	th Total (2	20 units mir	nimum)						
		Computer Systems Engineering Core + Depth	Total (5	3 units min	ımum)						
Program	Approvals										
	•										
Departme	ntal										
•			Date:								
Signature:			•								
	-										
School of Engineering (signature not required prior to graduation)											
	Printed Name:		_ Date:								
Signature:											

NOTES (continued from page 1)

- (2) Students who have taken either CS 103X or CS 103A, B are considered to have satisfied the CS 103 requirement. Students taking CS103A, B may complete the lower number of elective courses in a given specialization (see footnote 6).
- (3) The name of CS107 has changed. The previous CS 107 course titled *Programming Paradigms* also fulfills this requirement.
- (4) The WIM requirement may be met by taking CS 201 as a Technology in Society course or through the Senior Project course (191W, 194, or 294W only).
- (5) Independent study projects (CS 191 or 191W) require faculty sponsorship and must be approved, in advance, by the advisor, faculty sponsor, and the CSE senior project advisor (Robert Plummer or Patrick Young). A signed approval form, along with a brief description of the proposed project, should be filed with the department representative in Gates 182 the quarter before work on the project is begun.
- (6) Students who take CS 103A, B may complete the lower number of elective courses in a given specialization (i.e., one less elective than students taking CS 103X or CS 103).