Stanford University • School of Engineering

Computer Science Biocomputation Track

2016-2017 Program Sheet

Final version of program sheet due to the department one month prior to the last quarter of senior year.

Follow all requirements as stated for the year of the program sheet used.

_____ SU ID #:

Name:

Phone:			Email:					
Today's Date:			Month/YrB.S. expected:					
Mathem	atics and	Science Requirement				1		
Dept	Course	Title	Transf	er/AP Approval b		Unit	Grade	
Mathema	atics (23 m	l nits minimum)	✓ if Transfer	SoE Initials	Date			
MATH		Calculus (see note 1)	v II II alisiei			3		
MATH		Calculus	+			3		
MATH		Calculus	+			4	 	
		Mathematical Foundations of Computing	+			5		
CS		<u> </u>						
CS	109	Introduction to Probability for Computer Scientists				5	 	
STAT		One of: Stat 141, 203, 205, 215						
			Mathema	tics Unit Total (23 ι	ınıts minimum)		ł	
Science PHYS	(22 units r	,	1 1	<u> </u>		1 4		
		Mechanics	+			F == 40		
CHEM		Chemical Principles	+			5 or 10		
CHEM		Structure and Reactivity				5	-	
BIO or		Principles of Biology or	J	+		10		
HUMBIO	2A,3A,4A	Genetics, Evolution & Ecology/Cell & Dev Biology/The Huma	_ 			or 15	<u> </u>	
			Science Unit Total (24 units minimum)					
			(47 uni	ts min. Math/So	ci combined)		j	
Technol	ogy in So	ciety Requirement (1 course required; see UGHB Fi	gure 3-3 for a	approved list;	see note 7	")		
		amentals (8 units minimum)						
CS	106	Programming Methodology (B or X)				5		
		Elective (see note 2; CS 106A, B or X not allowed)						
		Engineer	ing Fundament	als Total (8 uni	ts minimum)			
NOTES								
*	All courses	listed on this form must be taken for a letter grade (if offered)	and can be incl	uded in only o	ne category			
	, ooa. oco	notes on the form much so taken for a lotter grade (il olicica)		aasa siny o	Juliogoly.			

- * 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 Engineering Fundamentals and Computer Science 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 Science Depth 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 24 math units are taken.
- (2) One course required; may not be CS 106A, B or X. See Engineering Fundamentals Fig. 3-4 in the UGHB for approved list.

CS Biocomputation Track Program Sheet (continued)

CS Biocomputation Track Core, Depth, and Senior Project (39 units minimum)

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

	Be advise	d: no course may be listed twice on the sheet; no doub	le-counting.					
Dont	Course	Title	Transfer/Deviation Approval by Dept			I Imit	Cuada	
Dept	Course			Dept Initials	Date	Unit	Grade	
	nits minimu		√ if Transfer					
CS	107 or 107E	Computer Organization and Systems				5		
CS		Principles of Computer Systems				5		
CS	161	Design and Analysis of Algorithms				5		
	Jnits minim	um)	-					
CS		One of: CS 221, 228, 229, 231A						
CS		One of: CS 262, 270, 273A, 274, 275, 279						
CS		One of (if not selected above) CS 221, 228, 229, 231A						
		262, 270, 273A, 274, 275, 279, 124, 145, 147, 148, 248						
		Restricted Elective (see note 3)						
		Restricted Elective (see note 4)						
		Restricted Elective (see note 5)						
		Restricted Elective (see note 6)						
Seior Proje	ect (1 course	e required)		•	-		-	
CS		At least 3 units of 191, 191W, 194, 194H, 194W, 210B, 294	or 294W (see no	ote 7)		3		
		Computer Science	ice Core and Depth Total (39 units minimum)					
					•		!	
Program	Approva	ıls						
Departme	ental							
Printed Name:			Date:					
Signature:			<u></u>					
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School of Engineering (No action required-office use only)				Dele				
Printed Na	me:		_	_ Date:				
Ciana a tour								
Signature:			_					

NOTES (continued from page 1)

- (3) One course selected from: CS 108, 124, 131, 140, 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, 275, 276, 279, 348B, 348C, 371, 374; CME 108; EE180, 263, 282, 364A; BioE 101; MS&E 152, 252; Stats 206, 315A, 315B; BMI 231, 260; GENE 211
- (4) One course selected from: CS 145, 147, 221, 228, 229, 262, 270, 273A, 273B, 274, 275, 279, 371, 374; EE 263, 364A; MS&E 152, 252; Stats 206, 315A, 315B; BMI 231, 260; GENE 211
- (5) One course selected from footnote 4 or BIOE 222A, 222B; ChemEng 150, 174; AppPhys 294; Bio 104, 118, 129A, 129B, 188, 189, 214, 217, 230; Chem 135, 171; BIOC 218, 241; Sbio 228
- (6) One course selected from: BioE 220, 222A, 222B; ChemEng 150, 174; CS 262, 274, 279, 371, 374; ME 281; AppPhys 294; Bio 104, 112, 118, 129A, 129B, 158, 183, 189, 214, 217, 230; Chem 135, 171; BIOC 218, 241; Dbio 210; GENE 211; Sbio 228; Surg 101
- (7) 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).