Stanford University • School of Engineering

Computer Science Unspecialized Track

2023-2024 Program Sheet

Final version of program sheet is 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:			SUID #:						
Phone:			Email:						
Today's Date:			Month/Yr E	Month/Yr B.S. expected:					
Mathe	matics ar	nd Science Requirement							
Dept	Course	Title	Transfer/AP Approval by SoE			Unit	Grade		
			√ if	SoE Initials	Date	Offic	Glade		
Mathematics (26 units minimum)		Transfer							
MATH	19	Calculus (see note 1)							
MATH	20								
MATH	21								
CS	103	Mathematical Foundations of Computing							
CS	109	Introduction to Probability for Computer Scientists							
Plus two	electives (see	e note 2)							
			Mathema	atics Unit Total (20	6 units minimum)				
Scienc	ce (11 unit	's minimum)							
PHYS	41	Mechanics (or PHYS 21 or PHYS 61)							
PHYS	43	Electricity and Magnetism (or PHYS 23 or PHYS 81/63)							
		Elective (see note 3)							
				Science Unit Total (11 units minimum)					
			(37 u	nits min. Math/S	Sci combined)				
Techn	ology in S	Society Requirement (1 course req'd from TiS Approved	list at ughb.sta	anford.edu the ye	ear taken; see n	ote 8)			
Engin	eering Fu	ndamentals (10 units minimum)							
CS		Programming Abstractions							
ENGR		An Intro to Making: What is EE? -OR- Information Science &	& Engr						
	•	•		tals Total (10 ur	nits minimum)				

NOTES

- * All courses listed on this form can be included under only one category. There is no double-counting.
- * All courses listed on this form must be taken for a letter grade (unless taken Spring 2019-20, and Aut-Sum 2020-21)
- * This printed form must be signed by the departmental representative (SSO), with changes petitioned (see UGHB, Petitions page) and initialed/dated by SSO.
- * Minimum Grade Point Average (GPA) for all courses in ENGR Fundamentals and CS Core, Depth, and Senior Project (combined) is 2.0.
- Students without prior programming experience should first take CS106A. The major otherwise requires at most 95 units.
- * <u>Transfer and AP credits in Math. Science. Fundamentals. & TIS must be approved by the SoE Dean's Office:</u> https://ughb.stanford.edu/transfers-ap-exceptions in UGHB for approval process. Transfer credits in Computer Science Core, Depth and Senior Project must be approved by the Computer Science office.
- * Courses must be taken for the number of units on the Program Sheet. CS103, 106B, 107, 109, 111, and 161 must be taken for 5 units.
- (1) MATH 19/20/21 or equivalent (10 units AP BC, or transfer, with placement into MATH 51/CME 100) is acceptable. If 6-8 units AP or IB credit are used, must take Math (21 may not be skipped using Math Diagnostic Placement results). AP must be approved by SoE; see * Transfer note above.
- (2) Math electives: Math 51, 52, 53, 104, 107, 108, 109, 110, 113; CS 157, 205L; PHIL 151; CME 100, 102, 104; ENGR 108.

 Restrictions: CS 157 + Phil 151 may not be combined to satisfy the electives requirement. Students taking both Math 51 & 52 may not count CME 100 as an elective. Students who take both Math 51 & CME 100 will receive only 8 units credit in the major due to overlapping material.
- (3) Any course of 3 or more units from the SoE Science List (see Courses page at ughb.stanford.edu), PSYCH 30, or AP Chemistry may be used.

CS Unspecialized Track Program Sheet (continued)

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

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

Dept	Course	Title	Transfer/Deviation Approval by Dept			Unit	Grade			
Борт	000100		√ if	Dept Initials	Date	Orine	Glado			
Core (15 units minimum)			Transfer							
CS	107 or 107E	Computer Organization and Systems								
CS	111	Operating Systems Principles								
CS	161	Design and Analysis of Algorithms								
Depth; Track and Electives (25 units and seven courses minimum)										
CS	154	Intro Automata and Complexity Theory (Track Requirement	A)							
CS		One of CS 112, 140E, or 143 (Track Requirement B)								
		Track Requirement C (see note 4)								
CS		Track Requirement D (see note 5)								
CS		Track Requirement E (see note 6)								
		Elective (see note 7)								
		Elective (see note 7)								
		Optional Elective (see note 7)								
Senior Project (1 course required)										
CS At least 3 units of 191, 191W, 194, 194H, 194W, 210B, or 29			4 (see note	8)						
		Computer Science Core, Depth and	Senior Pro	iect Total (43 un	its minimum)					
Progra	m Appro	vals			-					
Depart	mental									
Printed Name:				Date:						
	·		•	-						
Signature:										
School	l of Engine	eering (No action required-office use only)								
Printed Name:				Date:						
Signatur	e:									

NOTES (continued from page 1)

- (4) Track Requirement C: One additional course from the Track Requirement B list or the following CS 144, 155, 190, 242, 244; EE 180
- (5) Track Requirement D: Any one of CS 221, 223A, 228, 229, 231A
- (6) Track Requirement E: Any one of CS 145, 147, 148, 235, 248A
- (7) General CS Electives: CS 108, 112, 123, 124, 131, 140E, 142, 143, 144, 145, 147, 147L, 148, 149, 151, 154, 155, 157 (or PHIL 151), 163, 166, 168, 173A, 177, 190, 195 (max 4 units), 197, 197C, 205L, 206, 210A, 212, 217, 221, 223A, 224N, 224R, 224S, 224U, 224V, 224W, 225A, 227B, 228, 229, 229M, 230, 231A, 231N, 232, 233, 234, 235, 237A, 237B, 238, 240, 240LX, 242, 243, 244, 244B, 245, 246, 247 (any suffix), 248 (any suffix), CS249I, 250, 251, 252, 253, 254, 254B, 255, 256, 257, 259Q, 261, 263, 265, 269I, 269O, 269Q, 270, 271, 272, 273B, 273C, 274, 275, 276, 278, 279, 281, 330, 333, 336, 342, 348 (any suffix), 351, 368, 398, 448B; CME 108; EE 180, 267, 282, 364A, 374; MS&E 234
- (8) The WiM req't may be met by taking CS 181W or 182W as TiS, or by Senior Project course (CS 191W, 194W, or 210B only)