Stanford University • School of Engineering

Computer Science Individually Designed 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 yea	r of the pr	ogram she	et used.					
	Name:		SU ID #:							
Phone:			Email							
Today's Date:				Month/Yr B.S. expected:						
Mathe	ematics ar	nd Science Requirement (Delete courses and un	 its not take	en)						
Dept	Course	Title	Transfer/AP Approval by SoE			Unit	Grade			
			√ if	SoE Initials	Date	Offit	Olddo			
Mathematics (26		gunits 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	o electives (se	e note 2)								
			Mathema	tics Unit Total (2)	6 units minimum)					
Scien	ce (11 unit	ts minimum)								
PHYS	41	Mechanics (or PHYS 21 or 61)								
PHYS	43	Electricity and Magnetism (or PHYS 23 or PHYS 81/63)								
		Elective (see note 3)								
				Science Unit Total (11 units minimum)						
			- (37 ui	nits min. Math/	Sci combined)					
Techi	nology in S	Society Requirement (1 course req'd from Approved TiS lis	s <i>t at</i> ughb.stan	ford.edu <i>the ye</i>	ar taken; see no	ote 5)				
Engin	neering Fu	ndamentals (10 units minimum)								
CS		Programming Abstractions								
ENGR	40M or 76	An Intro to Making: What is EE? -OR- Information Science+E	NGR							

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.

Engineering Fundamentals Total (10 units minimum)

- * 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.
- * Transfer and AP credits in Math. Science. Fundamentals. & TIS must be approved by the SoE Dean's Office: 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 2 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 used in combination to satisfy the Math electives requirement. Students who have taken both

 Math 51 and 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 ma
- (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 Individually Designed Track Program Sheet (continued)

CS Individually Designed 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/Deviation Approval by Dept			Unit	Grade
			√ if	Dept Initials	Date	Offic	Glade
Core (1	5 units minin	num)	Transfer				
CS	107 or 107E	Computer Organization and Systems					
CS	111	Operating Systems Principles					
CS	161	Design and Analysis of Algorithms					
Depth;	Track and Ele	ectives (25 units and seven courses minimum) see note 4					
Senior	Project (1 cou	ırse required)					
CS		At least 3 units of 191, 191W, 194, 194H, 194W, 210B, or 294	(see note 5)				
		Computer Science Core, Depth and	Senior Proj	ect Total (43 ur	nits minimum)		
					•		_'
Progr	am Appro	vals					
Unde	rgraduate	Advisor					
Printed Name:				Date:			
			_	•			
Signatu	ure:		_				
Dona	rtment						
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Signature:			Data				
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School	ol of Engin	eering (No action required office use only)					
School of Engineering (No action required-office use only) Printed Name:				Date:			
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Signati	Iro:						

NOTES (continued from page 1)

- (4) Students may propose an Individually Designed Track. Proposals should include a minimum of seven courses, at least four of which must be CS courses numbered 100 or above. Proposals must be submitted & approved at least two quarters before graduation. To create an individually designed program, students should complete an *Individually Designed Track* program sheet and seek approval from their undergrad advisor and from the Associate Chair for Education (acting), Chris Gregg. Proposals will be evaluated for coherence and rigor. Approved program sheets should be given to the staff in the CS undergraduate program office. Any subsequent changes must go through the same proposal and approval process.
- (5) 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)