Stanford University • School of Engineering

Computer Science Artificial Intelligence Track

2016-2017 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.

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	Phone:		Email:				
Too	day's Date:		Month/Yr E	3.S. expected:			
Mathon	natice an	d Science Requirement (Delete courses and unit	- s not takei	2)			
Watnen		Title	_	Transfer/AP Approval by SoE			
Dept			√ if	SoE Initials	Date	Unit	Grade
Mathem	natics (26	units minimum)	Transfer	002	24.0		
MATH		Calculus (see note 1)				3	
MATH		Calculus				3	
MATH	21	Calculus				4	
CS	103	Mathematical Foundations of Computing				5	
CS	109	Introduction to Probability for Computer Scientists				5	
Plus two e	electives (se	e note 2)					
			Mathema	atics Unit Total (26	units minimum)		
Science	(11 units	s minimum)					
PHYS	41	Mechanics (or PHYS 21 or 61)				4	
PHYS	43	Electricity and Magnetism (or PHYS 23 or 63)				4	
		Elective (see note 3)					
			Scie	ence Unit Total (11	units minimum)		
			(37 un	its min. Math/S	ci combined)		
Techno	logy in S	ociety Requirement (1 course required; see UGHB	Figure 3-3 t	or approved	list; see note	9)	
Engine	ering Fu	ndamentals (13 units minimum)					
CS		Programming Abstractions (B or X)				5	
ENGR		Introductory Electronics (40A and 40M also allowed; see note	e 4)			5	
		Elective (See Fig. 3-4 in the UGHB for approved list; CS 106.	A, B or X not	allowed)			
				als Total (13 un	its minimum)		

NOTES

- * All courses listed on this form must be taken for a letter grade (if offered) and can be included under only one category.
- * 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 ENGR Fundamentals and CS 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.
- * Courses must be taken for the number of units on the Program Sheet. CS 103, 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 26 math units are taken. AP Calculus must be approved by SoE.
- (2) Math electives: Math 51, 104, 108, 109, 110, 113; CS 157, 205A; PHIL 151; CME 100, 102, 103 (or EE103), 104. Completion of Math 52 & 53 will (together) count as one Math elective. Restrictions: CS 157+ Phil 151 may not be used in combination to satisfy the Math electives requirement. Students who have taken both Math 51& 52 may not count CME 100 as an elective.
- (3) Any course of 3 or more units from the SoE Science List (Fig. 3-2 in the UGHB), PSYCH 30 or 55, or AP Chemistry may be used.
- (4) Students who take ENGR 40A or 40M for fewer than 5 units are required to take 1-2 additional units of ENGR Fundamentals (13 units minimum), or 1-2 additional units of Depth (27 units minimum for track and elective courses).

CS Artificial Intelligence Track Program Sheet (continued)

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

Be advised: no course may be listed twice; no double counting.

Dept	Course	Title	Transfer/	Transfer/Deviation Approval by Dept			Grade			
			√ if	Dept Initials	Date	Unit	Grade			
Core (15 ι	units minin	num)	Transfer							
CS	107 or 107E	Computer Organization and Systems				5				
CS		Principles of Computer Systems				5				
CS	161	Design and Analysis of Algorithms				5				
	ack and Ele	ectives (25 units and seven courses minimum)	-	-						
CS	221	Al: Principles and Techniques (Track Requirement A)				4				
CS CS		Track Requirement B (see note 5)								
CS		Track Requirement B (see note 5)								
		Track Requirement C (see note 6)								
		Elective (see note 7)								
		Elective (see note 7)								
		Elective (see note 7)								
		Optional Elective								
Senior Pro	oject (1 co	urse required)	-	-	-					
CS		At least 3 units of 191, 191W, 194, 194H, 194W, 210B, 294	or 294W (see	or 294W (see note 9) 3						
		Computer Science Core, Depth an	nd Senior Proje	ect Total (43 un	its minimum)					
Progran	n Appro	vals								
Departn	nental									
Printed Name:				Date:						
Signature	:									
School o	of Engine	eering (No action required-office use only)								
Printed Name:				Date:						
Signature	:									

NOTES (continued from page 1)

- (5) Track Requirement B: Any two of CS 223A, 224N, 228, 229, 131 or 231A
- (6) Track Requirement C: One additional course from the Track Requirement B list, or from the following: CS 124, 205A, 224S, 224U, 224W, 225A, 227B, 231A (if not taken for Track Requirement B), 231B, 231M, 231N, 262, 276, 277, 279, 327A, 329 (with advisor approval), 331A, 371, 374, 379 (with advisor approval); EE 263, 376A; ENGR 205, ENGR 209A; MS&E 251, 351; STATS 315A, 315B
- (7) Track Electives: At least three add'l courses selected from the Track Req't B list, C list, the General CS Electives list (see Note 8) or the following: CS 238, 275, CS334A or EE 364A; EE 278, EE 364B; ECON 286; MS&E 252, 352, 355; PHIL 152; PSYCH 202, 204A, 204B; STATS 200, 202, 205
- (8) General CS Electives: 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, 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, 276, 279, 348B, 348C; CME 108; EE 180, 282, 364A
- (9) The WIM requirement may be met by taking CS 181W as a Technology in Society course or through the Senior Project course (CS 191W, 194W, 210B, or 294W only).