CS CHECKLIST (ENGINEERING - for students matriculated in Fall 2024 or later)

Degree Date (expected)

Name:

E-mail: Cornell ID:

DRAFT

	Term	GPA	Term	GPA	Term	GPA

CUMULATIVE GPA: _____

COLLEGE REQUIREMENTS

Course	Cr	Sem	Gr	Advising Notes
FWS				**First-year Writing Seminars**
FWS				
Lib Stds				**Liberal Studies**: 6 courses; min.18 cr
Lib Stds				2 courses must be 2000-level or higher. Courses must be chosen from at least three of the seven groups (one must be a 3+ credit course from group RE): Group 1: Cultural Analysis, Literature and the Arts, Social Difference (CA, LA/LAD, ALC, SCD-HA only); Group 2: Historical Analysis (HA, HST); Group 3: Ethics, Cognition, and Moral Reasoning (KCM, ETM); Group 4: Social Science and Global Citizenship (SBA, SSC, GLC), Group 5: Foreign Languages (FL - not literature courses); Group 6: Communications in Engineering (CE); Group 7: Race & Equity (RE - SCD-AS or D-AG only)
Lib Stds				
Lib Stds				
Lib Stds				
G7 - RE				
MATH 1910	4			**Calculus Requirement**
MATH 1920	4			
MATH 2940	4			
PHYS 1110	1			
PHYS 1112	3			
PHYS 2213	4			
CHEM 2080 or PHYS 2214[1]	4			
CHEM 2090	4			
CS 1110 or 1112	4			**Introductory Programming**
CS/ENGRD 2110 or 2112				**Distribution Requirements**
D2				D2=EngrD
D3				D3= EngrI (Intro to Engr)

ENGINEERING COMMUNICATION REQUIREMENT:

No double counting: No course may be used twice in College Requirements, CS Core, or Electives

(e.g. ENGRD 2700 may **not** be used toward the EngrD distribution *and* as a Technical Elective.)

Notes: PE = _____ **of 2**

[1]Note: Students can substitute BTRY 3080, CHEM 2150, ECE 3100, ECON 3130, MATH 2930, MATH 4710, PHYS 2218

SUBJECT TO CHANGE

IMPORTANT: *Courses for the CS Core (including CS/ENGRD 2110/2112), CS Electives, CS Project, Technical Electives, and External Specialization must be taken for a letter grade. Minimum grade = C- once affiliated. Prior to affiliation, minimum grade in all critical CS and math courses = C.*

CS CORE

Course	Cr	Sem	Gr	Advising Notes
CS 2800 or 2802	4			Mathematical Foundations of Computing. Pre: CS 1110 or 1112
CS 3110	4			Data Structures & Functional Programming Pre: CS 2110 Co: CS 2800
CS 3410 or 3420	4			Digital Systems. Pre: CS 2110 (for 3410) or ENGRD 2300 (for 3420)
CS 3700 or CS 3780	3+			AI / ML. Pre: CS 2110 & (for 3700: CS 2800), (for 3780: prob, lin alg)
CS 4410 or 4414	3			Operating Systems.Pre:CS 3410 or 3420.
CS 4820	4			Theory of Algorithms. Pre: CS 2800 and 3110

ELECTIVES

Course		Cr	Sem	Gr	Advising Notes
CS		3+			**CS Electives:** Select two non-core CS 4000+ level courses (3+ credits) . CS 4090, CS 4998, and CS 4999, NOT allowed. CS 3700 or CS 3780 allowed (as long as not used in CS core).
CS		3+			
CS	Project	2+			**CS Project:** practicums (CS 4xx1) or 3152, 4152, 4154, 4740, 4752, 5150,5152, 5412, 5414, 5431, 5625, 5643
	Tech				**Technical Electives:** 3000+ (3+ crs) courses with qualifyig prereq. See: https://www.cs.cornell.edu/undergrad/csmajor/technicalelectives for list of qualifying prerequisites.
	Tech				
	Tech				At most two CS 4999. At most one 2000+ level allowed
	Spcl				**External Specialization**: Three 3000+ courses (3+ crs) from same subject area. The following courses are **not** allowed: CS courses and courses parented by CS, LING 4474, INFO 3300, INFO 4300, & INFO 5300.
	Spcl				
	Spcl				SPCL: _____
	MAJ				**Major Approved Elective:** At least 3 credit hours total. All academic courses count. No PE courses, courses numbered 10xx, Engineering AEW's or ROTC courses (unless cross-listed with an academic dept.)
	APRV				**Advisor Approved Electives:** At least 6 credit hours total. All academic courses count. See https://www.cs.cornell.edu/undergrad/rulesandproceduresengineering/engineeringchecklist for list of restrictions.
	APRV				

Extra Courses (not required)

"X" to left of course signifies course is on transcript & satisfies requirement

CS HONORS CANDIDATE?		YES		
Course		Cr	Sem	Gr
CS 4999		3+		
CS 4999		3+		
CS 5000+		3+		