CS CHECKLIST (ENGINEERING)

Name:

E-mail: Cornell ID:

Degree Date (expected)

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 six groups: Group 1: Cultural Analysis, Literature and the Arts, Social Difference (CA, LA/LAD, ALC, SCD); 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)
Lib Stds				
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Lib Stds				
Lib Stds				
MATH 1910	4			**Calculus Requirement**
MATH 1920	4			
MATH 2940	4			
PHYS 1110[1]	1			
PHYS 1112	3/4			
PHYS 2213	4			
CHEM 2080 or PHYS 2214[2]	4			
CHEM 2090	4			
CS 1110 or 1112	4			**Introductory Programming**
CS/ENGRD 2110 or 2112				**Distribution Requirements**
D2				D2=EngrD
D3				D3= Engrl (Intro to Engr)

☐ ENGINEERING COMMUNICATION REQUIREMENT:

☐ PROBABILITY COURSE: One of BTRY 3080, CS 4850, ECE 3100, ECON 3130, ENGRD 2700 or MATH 4710 (Taking a 3000+ level course strongly recommended.)

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: for students taking PHYS 1112 and 2213 fall 2021 and later

[2] 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, CS probability requirement, 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			Discrete Structures. Pre: CS 1110 or 1112 or 1114 or 1115
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 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 three non-core CS 4000+ level courses (3+ credits) . CS 4090, CS 4998, and CS 4999, NOT allowed.
CS	3+			
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+		