

# CS CHECKLIST (ENGINEERING)

Name:

E-mail:

Cornell ID:

Degree Date (expected)

Term	GPA	Term	GPA	Term	GPA

**DRAFT**

CUMULATIVE GPA: \_\_\_\_\_

COLLEGE REQUIREMENTS				
Course	Cr	Sem	Gr	Advising Notes
FWS				Freshman Writing Seminars
FWS				
Lib Stds				<b>Liberal Studies:</b> 6 courses; min.18 cr 2 courses must be 2000-level or higher. Courses must be chosen from at least three of the six groups: Cultural Analysis (CA), Historical Analysis (HA), Literature & the Arts (LA), Knowledge, Cognition, & Moral Reasoning (KCM), Social & Behavioral Analysis (SBA), Foreign Language (FL), Engineering Communications (CE)
Lib Stds				
Lib Stds				
Lib Stds				
Lib Stds				
Lib Stds				
MATH 1910	4			Calculus Requirement
MATH 1920	4			
MATH 2940	4			
PHYS 1110 <sup>1</sup>	1			
PHYS 1112	3/4			
PHYS 2213	4			
CHEM 2080 or PHYS 2214 <sup>2</sup>	4			
CHEM 2090	4			
CS 1110 or 1112	4			
CS/ENGRD 2110 or 2112				Distribution Requirements
D2				
D3				

- TECHNICAL WRITING COURSE:
- 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

<sup>1</sup>Note: for students taking PHYS 1112 and 2213 fall 2021 and later

<sup>2</sup>Note: Students can substitute BTRY 3080, CHEM 2150, 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+			<b>CS Project:</b> practicums (CS 4xx1) or 3152, 4152, 4154, 4752, 5150, 5152, 5412, 5414, 5431, 5625, 5643
CS	2+			
Tech				<b>Technical Electives:</b> 3000+ (3+ crs) from application areas: CS; Bio; Chem; Math; Econ; etc. (only one of ENGRD 2700 or MATH 2930 accepted) At most two CS 4999. For other Indep.Studies, see 110 Gates
Tech				
Tech				
Spcl				<b>External Specialization:</b> Three 3000+ courses (3+ crs) from same subject area. The following courses are <b>not</b> allowed: CS courses and courses parented by CS, LING 4474, INFO 3300, INFO 4300, & INFO 5300.  SPCL: _____
Spcl				
Spcl				
MAJ				<b>Major Approved Elective:</b> At least 3 credit hours total. All academic courses count. No PE courses, courses numbered 10xx, or ROTC courses below the 3000-level allowed
APRV				
APRV				<b>Advisor Approved Electives:</b> At least 6 credit hours total. All academic courses count. No PE courses, courses numbered 10xx, or ROTC courses below the 3000-level allowed

Extra Courses (not required)				
Course	Cr	Sem	Gr	

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

CS HONORS CANDIDATE? <input type="checkbox"/> YES			
Course	Cr	Sem	Gr
CS 4999	3+		
CS 4999	3+		
CS 5000+	3+		