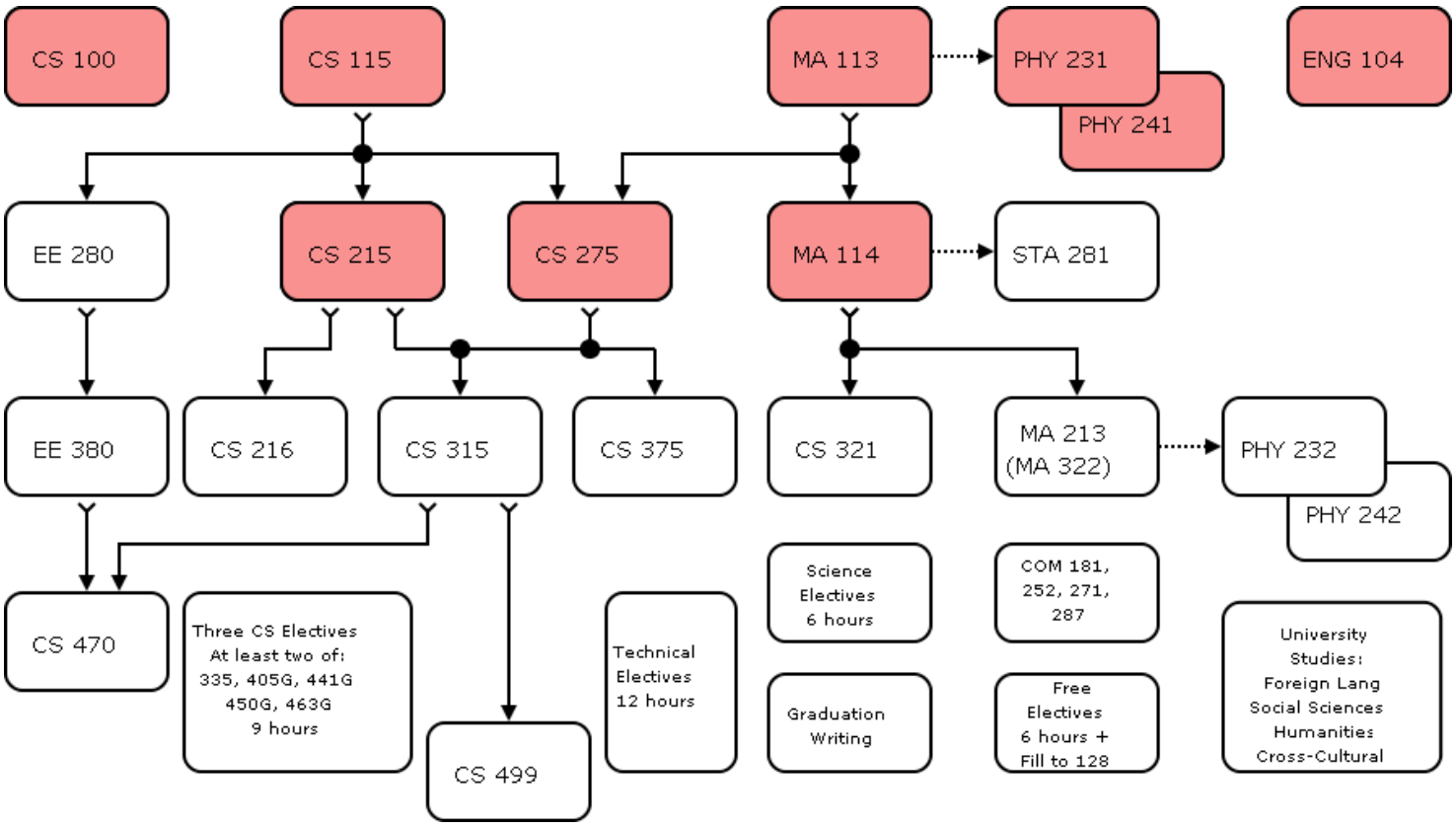
Diagram and Checklist for Computer Science Major Requirements

University of Kentucky

(Fall 2006 to present)



University Study Program Requirements should be verified separately.

Free Electives; Two courses must be in areas other than computer science, science, engineering, or mathematics to satisfy the University Studies Program and the computer science ABET accreditation requirements. Any remaining electives should be selected to meet the minimum total of 128 hours required for graduation

Engineering Standing; From 2007/2008 to present, Computer Science engineering standing requires the following courses with at least 2.5 grade average:

- CS 100, CS 115, CS 215 and CS 275
- ENG 104
- MA 113 and MA 114
- PHY 231 and PHY 241

	CS UK Requirements – Discuss/verify with your advisor. *(this template last modified: 2009-06-22)*			
SID NAME				
DATE WHEN PREPARED:		HOURS	GRADE	SEMESTER/NOTES
	Verify/Check All USP Requirements: Humanities			
	Humanities			
	Social			
USP	Social			
	XCultural			
	Graduation Writing Requirement			
	Foreign Lang Requirement			
	Foreign Lang Requirement			
ENG 104	Writing: An Accelerated Foundational Course; or	4		
or; ENG 101	Writing I	3		
ENG 102	Writing II	3		
	Subtotal: USP (required PHY satisifes Natural Sci.)			
CS 100	The Computer Science Profession	1		
CS 115	Introduction to Computer Programming	3		
CS 215	Intro to Program Design, Abstraction, and Problem Solving	4		
CS 216	Introduction to Software Engineering	3		
CS 275	Discrete Mathematics	4		
MA 113	Calculus I	4		
MA 114	Calculus II	4		
PHY 231	General University Physics	4		
PHY 241	General University Physics Laboratory	1		
	Subtotal: Premajor Hours	**28**		
PHY 232	General University Physics	4		
PHY 242	General University Physics Laboratory	1		
Additional	Science Elective I	3		
Additional	Science Elective II	3		
MA 213	Calculus III (prereq for PHY 232)	4		
or MA 322	Matrix Algebra and its Applications	3		
EE 280	Design of Logic Circuits	3		
COM ___	Choose one communication course from: COM 181 or COM 252 or COM 281 or COM 287			
	Subtotal: Communication	**3**		
STA 281	Prob and Stat Using Interactive Comp Tech	3		
CS 315	Algorithm Design and Analysis	3		
CS/MA 321	Introduction to Numerical Methods	3		
CS 375	Logic and Theory of Computing	3		
CS/EE 380	Microcomputer Organization	3		
CS 470G	Introduction to Operating Systems	3		
CS 499	Senior Design Project	3		
	Subtotal: Major Hours			
CS-Elect.	Choose 9 hours (must include 6 hours from 335, 405, 441, 450, or 463):			
CS 335	Graphics and Multimedia			
CS 405G	Introduction to Database Systems			
CS 441G	Compilers for Algorithmic Languages			
CS 450G	Fundamentals of Programming Languages			
CS 463G	Logic and Artificial Intelligence			
CS ___	CS course (3-credit) at the 300-level or above			
	Subtotal: CS Electives	**9**		
Tech-Elect.	Choose technical electives – 12 credits: any additional 300-level or higher classes in CS, Mathematics (includes MA 214), Engineering or the College or Business and Economics			
	Subtotal: CS Technical Electives	**12**		
Free-Elect.	Choose free electives (check with advisor) – 6 credits: free elective I			
	free elective II			
	Subtotal: Free Electives (not from CS/MA/Science/Engineering)	**6**		
	TOTAL EARNED HOURS (at least 128)			
	GPA (at least 2.0 for Major reqs)			
	GPA for Engr Standing Reqs (at least 2.5)			