

UNDERGRADUATE COMPUTER ENGINEERING CURRICULUM CHECKLIST

Oct. 2015

Name: _____ Date: _____ Approval: _____

1. First & Second Year Technical Requirements (usually 44 pts., with many taken before major declaration.)
 (For details see <http://bulletin.engineering.columbia.edu/computer-engineering-program.>)

COURSE	GRADE	COURSE	GRADE
MATH V1101 Calculus I (if needed)	_____	MATH V1102 Calculus II (if needed)	_____
MATH V1201 Calculus III	_____	MATH V1202 Calculus IV	_____
PHYS C1401 (or alternates)	_____	PHYS C1402 (or alternates)	_____
CHEM C1403 (or alternates)	_____	PHYS C1493 (or alternates)	_____
ENGI E1006 Intro Comp. EAS	_____	COMS W1004 Intro CS (or W1007)	_____
COMS W3203 Discrete Math	_____	ELEN E1201 Intro. to EE	_____
ENGI E1102 Art of Engineering	_____		
APMA E2101 or {ODE: _____ and Lin. Alg.: _____} (specify which taken)			_____/_____

2. Core Required CMEN Courses & Labs (usually 42 pts.)
 (For details see <http://bulletin.engineering.columbia.edu/computer-engineering-program.>)

COURSE	GRADE	COURSE	GRADE
ELEN E3801 Signals & Systems	_____	CSEE W3827 Digital Systems	_____
ELEN E3084 Signals & Systems Lab	_____	ELEN E3082 Digital Systems Lab	_____
ELEN E3201 Circuit Analysis	_____	ELEN E3331 Electronic Circuits	_____
ELEN E3081 Circuit Analysis Lab	_____	ELEN E3083 Electronic Circuits Lab	_____
COMS E3134 Data Structures (or W3137)	_____	COMS W3157 Adv. Programming	_____
IEOR E3658 Probability (or alternates)	_____	COMS W3261 CS Theory	_____
COMS W4118 Operating Systems	_____	COMS W4115 Prog. Lang. & Trans.	_____
CSEE W4119 Computer Networks	_____	EECS E4340 Comp. Hard. Des. or	
or CSEE W4823 Adv. Logic Des.	_____	CSEE W4840 Emb. Sys. Des. or	
		CSEE W4140 Networking Lab	_____

3. Technical Electives (15 pts., or 12 pts. if full O.D.E. & Linear Algebra courses taken instead of APMA E2101)
 All must be **3000+ level** technical courses. Economics courses cannot be used here. Eligible courses are as follows:

- EE Dept. listed courses (except nontechnical courses such as EEHS E3900, courses already used to fill a requirement, or those with significant overlap, such as alternates).
- CS Dept. listed courses (except for COMS W3101, nontechnical courses such as COMS W3410, courses already used to fill a requirement, or those with significant overlap, such as alternates).
- One or two technical courses from outside EE and CS can be allowed, as long as they do not overlap significantly with other courses used to fill requirements. Please get advisor or committee approval in advance. Courses are evaluated for suitability as part of an overall 4-5 course technical elective plan.

COURSE 1: _____ COURSE 2: _____

COURSE 3: _____ COURSE 4: _____

COURSE 5 (if needed): _____

4. Non-Technical Course Requirement (27 pts.) _____
 (For details see <http://bulletin.engineering.columbia.edu/first-yearsophomore-program.>
 Administered by the Center for Student Advising, as are the general requirements below.)

5. General Requirements (Total ≥ 128 pts., ≥ 60 pts. at Columbia, 2 pts. Phys. Ed., GPA ≥ 2.0) _____
 (Note that course equivalence is not the same as transfer credit – it does not reduce total points needed.)