

UNDERGRADUATE COMPUTER ENGINEERING CURRICULUM CHECKLIST

May 2019

Name: _____ Date: _____ Approval: _____

1. First & Second Year Technical Requirements (usually 43.5 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)	_____
APMA E2000 Multivariable Calculus	_____	COMS W3203 Discrete Math	_____
PHYS C1401 (or alternates)	_____	PHYS C1402 (or alternates)	_____
CHEM C1403 (or alternates)	_____	PHYS C1493 (or alternates)	_____
ENGI E1006 Intro Comp. for EAS	_____	COMS W1004 Intro CS (or W1007)	_____
ENGI E1102 Art of Engineering	_____	ELEN E1201 Intro. to EE	_____
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 Fund. of Computers	_____
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 W4115 Prog. Lang. & Trans.	_____		
or COMS W4118 Operating Systems	_____	Choice #1 (_____)	_____
Choice #2 (_____)	_____	Choice #3 (_____)	_____
{Choose 3 of these 6: CSEE W4119, EECS E4321, CSEE W4823, CSEE W4824, CSEE W4840, CSEE W4868}			

3. Technical Electives (15 pts., or 12 pts. if MATH UN2030 + APMA E3101 / MATH UN2010 / COMS W3251)
 All technical electives require advisor approval and will be evaluated according to these guidelines and as part of an overall technical elective plan. Tech electives must be **3000-or-higher-level technical** courses. Most EE and CS department courses meet this requirement, and at most two technical courses outside of EE and CS may be approved. (Do not rely on the DAR or what other programs allow to determine eligibility.)

The following courses **cannot** be used:

- Economics courses.
- COMS W3101/W3102.
- Not-very-technical courses, e.g., about ethics/entrepreneurship/management.
- Any course that is being used to fill another requirement, or that has significant overlap (such as alternate courses).

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.)