## ELECTRICAL ENGINEERING CURRICULUM CHECKLIST

Name:	Date:	11	
Note: All courses have an ELEN designa	tor unless otherwis	e specified.	
		<b>nical (up to 42.5 pts.)</b> ering/academic-departments-programs/electrica	al
engineering/ COURSE	GRADE	COURSE	GRADE
MATH V1101 Calculus I (if needed)		MATH V1102 Calculus II (if needed)	
APMA E2000 Multivariable Calculus		ENGI E1006 Intro Comp. for Engineers	
PHYS C1401 (or alternates)		PHYS C1402 (or alternates)	
PHYS C1403 (or alternates)		PHYS C1494 (or alternates)	
CHEM C1403 (or alternates)		ELEN E1201 Intro to EE	
ENGI E1102 Art of Engineering		APMA E2101 (or alternates)	
Circle alternates used for APMA E2101,	if any: or {MATH	V2030 and (APMA E3101 or MATH V2010)	
2. Core Required EE Courses & Lab COURSE	os (up to 38.5 pts.) GRADE	(See bulletin for comments and alternatives.) COURSE	GRADE
E3801/E3084 Signals & Systems / Lab		CSEE W3827/E3082 Fund. Comp. / Lab	
E3201/E3081 Circuit Analysis / Lab	/	E3331/E3083 Electronic Circuits / Lab	/
E3106 Solid State		E3401 Electromagnetics	
E3043 Sol. State, Mwave, & F.Optics La	.lb	E3701 Intro. Comm. Sys. or	
IEOR E3658 Probability (or alternate)		CSEE W4119 Computer Networks	
COMS E313* Data Structures		ELEN E3399 EE Practice	
<ul> <li>4. Depth Technical Electives (6 pts.) Note that some more advanced cours a. <i>Photonics, Solid State Devices, and El</i> E4193, E4401, E4411, E4420, E4944, E4488.</li> <li>b. <i>Circuits and Electronics</i> E4215, E4312, E4314, EECS E4321, E4350, E436</li> </ul>	ses can be added to lectromagnetics	<ul> <li>a single one of the following four areas not use these lists with advisor approval.</li> <li>c. Signals &amp; Systems E4511, E4720, E4810, E4815, E4830, E4835, EEME E3 E4601, EEOR E4650.</li> <li>d. Communications &amp; Networking E3701, CSEE W4119, CSEE W4140, EECS E4764, E4' COMS W4181.</li> </ul>	3601, EEME
COURSE 1:		COURSE 2:	
<ul> <li>depth area (a-d):</li> <li>Other EE-listed courses (except ratioverlap, or project course such as E</li> <li>Other CS-listed courses (except for topics such as ethics or business, or documented as being technical and</li> <li>APPH E4100, APPH 4110, APPH</li> <li>Courses with mostly engineering</li> </ul>	re ones not sufficient 3998/4998 unless doo or COMS W3203, Co other courses used fo outside depth area). E4112 allowed if not content from any oth	courses with mostly engineering content from outside ly technical, other courses used for #1-5 or those of cumented as being technical and outside the depth at DMS W3101 & 3102, not sufficiently technical co r #1-5 or those with significant overlap, or project using depth area <b>a</b> . her SEAS department may be acceptable as long lease get advisor approval in advance.	with significant rea.) purses covering courses unless
COURSE 1:		COURSE 2:	
used for #1-6. Please get advisor appr generally allowed. 3 pts. can be waived	el technical (includin oval in advance. Mi if 6 pt. alternate used	g math or science) courses that do not overlap wit usic Dept. courses are not allowed. Economics D d for APMA E2101 requirement. Waiver does not illy advanced courses used to fill APMA E2101 requi	ept. course not generally apply

COURSE 1:

COURSE 2 (if needed):

- 7. Non-Technical Course Requirement (27 pts.) (Administered by the Center for Student Advising. For details see <a href="https://bulletin.columbia.edu/columbia-engineering/undergraduate-studies/undergraduate-programs/first-year-sophomore-program/">https://bulletin.columbia.edu/columbia-engineering/undergraduate-studies/undergraduate-programs/first-year-sophomore-program/</a>.)
- 8. General Requirements (Total ≥128 pts., ≥ 60 pts. at Columbia, 2 pts. Phys. Ed., GPA ≥ 2.0)