

## To Receive a BS Degree in Both Electrical and Computer Engineering

A dual degree in Electrical and Computer Engineering can be received by taking about 12 credit-hours of additional coursework, provided one carefully plans their course schedule. While the plan will vary for each student, one possibility is given. In any case, students should discuss their plans with their advisor and carefully monitor their CAPS reports to ensure they are consistently meeting the requirements of both programs.

Example course-plan for a dual degree in EE and CpE:

<b>Semester</b>	<b>Courses to be taken</b>	<b>Credits</b>	<b>Requirement(s) satisfied in Cp Eng</b>	<b>Requirement(s) satisfied in El Eng</b>
1	FE 1100-Study & Careers in Eng	1	FE 1100	FE 1100
	Math 1214-Calculus I for Engineers	4	Math 1214	Math 1214
	Chem 1310-General Chemistry	1	Chem 1310	Chem 1310
	Chem 1319-General Chemistry Lab	4	Chem 1319	Chem 1319
	Hist 1200, 1300, 1310 or Pol Sc 1200	3	US History elective	US History elective
	English 1120-Exposition & Argumentation	3	Eng 1120	Eng 1120
		16		
2	Mc Eng 1720-Intro to Engr Design	3	Mc Eng 1720	Mc Eng 1720
	Math 1215-Calculus II for Engineers	4	Math 1215	Math 1215
	Physics 1135-Engineering Physics I	4	Phys 1135	Phys 1135
	Econ 1100 or 1200	3	Econ 1100 or 1200	Econ 1100 or 1200
	Elective-Hum or Soc	3	Hum/SS req.	Hum/SS req.
		17		

3	El Eng 2100- Circuits I	3	El Eng 2100	El Eng 2100
	El Eng 2101- Circuits I Lab	1	El Eng 2101	El Eng 2101
	Cmp Sc 1570 – Intro to Programming	3	Cmp Sc 1570	Cmp Sc 1570
	Cmp Sc 1580 – Intro to Programming	1	Cmp Sc 1580	Cmp Sc 1580
	Math 2222-Calculus with Analytic Geometry III	4	Math 2222	Math 2222
	Physics 2135 – Engineering Physics II	4	Phys 2135	Phys 2135
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		16		
4	El Eng 2120-Circuits II	3	El Eng 2120	El Eng 2120
	Cp Eng 2210-Introduction to Computer Engineering	3	Cp Eng 2210	Cp Eng 2210
	Cp Eng 2211-Computer Engineering Lab	1	Cp Eng 2211	Cp Eng 2211
	El Eng 2200-Introduction to Electronic Devices	3	El Eng 2200	El Eng 2200
	El Eng 2201-Electronic Devices Lab	1	El Eng 2201	El Eng 2201
	Math 3304-Elementary Differential Equations	3	Math 3304	Math 3304
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		14		
5	El Eng 3410-Digital Signal Processing	3	El Eng 3410	El Eng 3410
	El Eng 3100-Electronics I	3	Cp Eng Elective C	El Eng 3100
	El Eng 3101-Electronics I Lab	1	<none>*	El Eng 3101
	El Eng 3320-Control Systems	3	Cp Eng Elective D	El Eng 3320
	El Eng-3321-Control Systems Lab	1	<none>*	El Eng 3321
	Cmp Sc 1510-Data Structures	3	Cmp Sc 1510	Free elective

	English 3560-Technical Writing	3	English 3560	English 3560
		17		
6	Cp Eng 3150-Digital Systems Design	3	Cp Eng 3150	El Eng Elective A
	Cp Eng 3151-Digital Engineering Lab II	1	Cp Eng 3151	<none>*
	Cmp Sc 1200-Discrete Mathematics	3	Cmp Sc 1200	Free elective
	Engineering Science Elective	3	Engineering Science Elective	Engineering Science Elective
	El Eng 3430-Digital Communications I	3	Cp Eng Elective E	El Eng 3430
	El Eng 3431- Digital Communication Lab	1	<none>*	El Eng 3431
		14		
7	Stat 3117-Intro to Prob/Stat	3	Stat 3117	Stat 3117
	Sp&M 1185-Principles of Speech	3	Sp&M 1185	Sp&M 1185
	El Eng 3600-Electromagnetics	4	Free Elective	El Eng 3600
	Cp Eng 3110-Computer Architecture	3	Cp Eng 3110	El Eng Elective E
	Cmp Sc 3800-Introduction to Operating Systems	3	Cmp Sc 3800	<none>
		16		
8	Elective-Hum or Soc (any level)	3	Hum/SS req.	Hum/SS req.
	El/Cp Eng 4096-Senior Project I	1	Cp Eng 4096	El Eng 4096
	Cp Eng 5410-Digital Network Design	3	Cp Eng 5410 or Cp Sc 5600	<none>
	Math 3108-Linear Algebra	3	Math elective	Math 3108

El Eng Elective B	3	Free elective	El Eng Elective B
Cp Eng Elective B	3	Cp Eng Elective B	El Eng Elective D
	16		

9	El/Cp Eng 4097-Senior Project II	3	Cp Eng 4097	El Eng 4097
	Elective-Hum or Soc (upper level)	3	Upper Level Hum/SS req.	Upper Level Hum/SS req.
	El Eng Elective C	3	<none>	El Eng Elective C
	El Eng Power Elective	3	Cp Eng Elective E	El Eng Power Elective
	El Eng Power Elective Lab	1	<none>*	El Eng Power Elective lab
	Cp Eng Elective A	3	Cp Eng Elective A	<none>
		16		

\*Laboratories are required to be taken as a co-requisite.