

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 14 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:

Semester	Courses to be taken	Credits	Requirement(s) satisfied in Cp Eng	Requirement(s) satisfied in EI Eng
1	FE 10-Study & Careers in Eng	1	FE 10	FE 10
	Math 14-Calculus I for Engineers	4	Math 14	Math 14
	Chem 1-General Chemistry	1	Chem 1	Chem 1
	Chem 2-General Chemistry Lab	4	Chem 2	Chem 2
	Hist 112, 175, 176, or Pol Sc 90	3	US History elective	US History elective
	English 20-Exposition & Argumentation	3	Eng. 20	Eng. 20
		16		
2	IDE 20-Eng Design with Comp Appl	3	IDE 20	IDE 20
	Math 15-Calculus II for Engineers	4	Math 15	Math 15
	Physics 23-Engineering Physics I	4	Phys 23	Phys 23
	Econ 121 or 122	3	Econ 121 or 122	Econ 121 or 122
	Elective-Hum or Soc	3	Hum/SS req.	Hum/SS req.
		17		

3	El Eng 151- Circuits I	3	El Eng 151	El Eng 151
	El Eng 152- Circuits I Lab	1	El Eng 152	El Eng 152
	Cmp Sc 53 – Intro to Programming	3	Cmp Sc 53	Cmp Sc 53
	Cmp Sc 54 – Intro to Programming	1	Cmp Sc 54	Cmp Sc 54
	Math 22-Calculus with Analytic Geometry III	4	Math 22	Math 22
	Physics 24 – Engineering Physics II	4	Phys 24	Phys 24
		16		
4	El Eng 153-Circuits II	3	El Eng 153	El Eng 153
	Cp Eng 111-Introduction to Computer Engineering	3	Cp Eng 111	Cp Eng 111
	Cp Eng 112-Computer Engineering Lab	1	Cp Eng 112	Cp Eng 112
	El Eng 121-Introduction to Electronic Devices	3	El Eng 121	El Eng 121
	El Eng 122-Electronic Devices Lab	1	El Eng 122	El Eng 122
	Math 204-Elementary Differential Equations	3	Math 204	Math 204
		14		
5	El Eng 215-Discrete Linear Systems I	3	El Eng 215	El Eng 215
	El Eng 216-Discrete Linear Systems I Lab	1	El Eng 216	El Eng 216
	El Eng 253-Electronics I	3	Cp Eng Elective B	El Eng 253
	El Eng 255-Electronics I Lab	1	<none>*	El Eng 255
	Cmp Sc 153-Data Structures	3	Cmp Sc 153	Free elective
	English 160-Technical Writing	3	English 160	English 160
		17		

6	Cp Eng 213-Digital Systems Design	3	Cp Eng 213	El Eng Elective A
	Cp Eng 214-Digital Engineering Lab II	1	Cp Eng 214	<none>*
	Cmp Sc 158-Discrete Mathematics	3	Cmp Sc 158	Free elective
	Engineering Science Elective	3	Engineering Science Elective	Engineering Science Elective
	El Eng 217-Continuous Linear Systems II	3	Cp Eng Elective C	El Eng 217
	El Eng 218-Continuous Linear Systems II Lab	1	<none>*	El Eng 218
		14		
7	Stat 217-Prob & Stat for Eng and Scientists	3	Stat 217	Stat 217
	Sp&M 85-Principles of Speech	3	Sp&M 85	Sp&M 85
	El Eng 271-Electromagnetics	4	Cp Eng Elective D	El Eng 271
	Cp Eng 215-Computer Architecture	3	Cp Eng 215	El Eng Elective E
	Cmp Sc 284-Introduction to Operating Systems	3	Cmp Sc 284	El Eng Elective D
		16		
8	Elective-Hum or Soc (any level)	3	Hum/SS req.	Hum/SS req.
	El/Cp Eng 391-Senior Project I	1	Cp Eng 391	El Eng 391
	Cp Eng 319-Digital Network Design	3	Cp Eng 319 or Cp Sc 365	<none>
	Math 208-Linear Algebra	3	Math elective	Math 208
	El Eng Elective B	3	Free elective	El Eng Elective B
	Cp Eng Elective A	3	Cp Eng Elective A	<none>

9	El/Cp Eng 392-Senior Project II	3	Cp Eng 392	El Eng 392
	Elective-Hum or Soc (upper level)	3	Upper Level Hum/SS req.	Upper Level Hum/SS req.
	El Eng Elective C	3	Free elective	El Eng Elective C
	El Eng Power Elective	3	<none>	El Eng Power Elective
	El Eng Power Elective Lab	1	<none>*	El Eng Power Elective lab

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