

Binary Program Course Requirements  
Case School of Engineering

**Electrical Engineering**  
(DRAFT)

Course requirements prior to admission to Case School of Engineering for all degree programs

Subject Code	Course Number	Course Title	Semester Credit Hours
CHEM	105	Principles of Chemistry I	3
CHEM	106	Principles of Chemistry II	3
CHEM	113	Principles of Chemistry Lab	2
ENGR	131	Elementary Computer Programming	3
MATH	121	Calculus for Science & Engineering I	4
MATH	122	Calculus for Science & Engineering II	4
MATH	223	Calculus for Science & Engineering III	3
MATH	224	Elementary Differential Equations	3
PHYS	121	General Physics I	4
PHYS	122	General Physics II	4
		Humanities and Social Sciences	22
		(including college level writing proficiency)	0
		Physical Education (2 semesters)	0
			55

Other courses for the Electrical Engineering major to be taken prior to CSE enrollment

Subject Code	Course Number	Course Title	Semester Credit Hours
*	EECS 309	Electromagnetic Fields I	3

\* required course

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**Electrical Engineering**

Fall Year 1

Subject Code	Course Number	Course Title	Hours per Week		Semester Credit Hours
			Class	Lab	
ENGL	398N	Professional Communication	3	0	3
ENGR	210	Circuits and Instrumentation	3	2	4
EECS	281	Computer Org. Logic Design	3	2	4
STAT	332	Statistics of Signal Processing	3	0	3
			12	4	14

Spring Year 1

Subject Code	Course Number	Course Title	Hours per Week		Semester Credit Hours
			Class	Lab	
ENGR	225	Fluid and Thermodynamics	4	0	4
EECS	245	Circuits, Signals and Systems I	3	2	4
EECS	321	Semiconductor Elect. Devices	3	2	4
EECS	351	Communications & Signal Analysis	3	0	3
			13	4	15

Fall Year 2

Subject Code	Course Number	Course Title	Hours per Week		Semester Credit Hours
			Class	Lab	
ENGR	200	Statics and Strength of Materials	3	0	3
EECS	246	Signals & Systems	3	2	4
EECS	398	Senior Project Lab I	0	8	4
		Approved Technical Elective	3	0	3
		Approved Technical Elective	3	0	3
			12	10	17

Spring Year 2

Subject Code	Course Number	Course Title	Hours per Week		Semester Credit Hours
			Class	Lab	
EECS	399	Senior Project Lab II	0	8	4
		Approved Technical Elective	3	0	3
		Approved Technical Elective	3	0	3
		Approved Technical Elective	3	0	3
		Approved Technical Elective	3	0	3
			12	8	16