

Binary Program Course Requirements
Case School of Engineering

Computer Engineering
(DRAFT)

Courses equivalent to the following need to be taken 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 Computer Engineering major which may be found in many Physics programs. Taking any of these required classes prior to CSE enrollment will have a strong positive impact upon your CSE schedule.

Subject Code	Course Number	Course Title	Semester Credit Hours
**	EECS 309	Electromagnetic Fields I	3
**	ENGR 210	Intro to Circuits & Instrumentation	4
**	ENGR 200	Statics & Strength of Materials	3
**	ENGR 225	Fluids and Thermodynamics	4
**	STAT 312	Statistics for Engineering & Science	3

** recommended course

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Computer 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
EECS	233	Intro to Data Structures	3	2	4
MATH	304	Discrete Math	3	0	3
			15	6	18

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	315	Digital Systems Design	3	2	4
EECS	337	Systems Programming	3	2	4
EECS	314	Computer Architecture	3	0	3
			13	4	15

Fall Year 2

Subject Code	Course Number	Course Title	Hours per Week		Semester Credit Hours
			Class	Lab	
EECS	301	Digital Electronics Laboratory	0	4	2
EECS	318	VLSI/CAD (or)	3	2	4
		EECS 338 Operating Systems	3	1	4
		Approved Technical Elective	3	0	3
		Approved Technical Elective	3	0	3
		Approved Technical Elective	3	0	3
			12	6	15

Spring Year 2

Subject Code	Course Number	Course Title	Hours per Week		Semester Credit Hours
			Class	Lab	
ENGR	200	Statics & Strength of Materials	3	0	3
STAT	312	Statistics for Engineering & Science	3	0	3
EECS	398	Engineering Projects I	0	8	4
		Approved Technical Elective	3	0	3
		Approved Technical Elective	3	0	3
			12	8	16