

Computer Engineering Curriculum

The Bachelor of Science in Computer Engineering curriculum is a four-year program for students with adequate preparation. A major in computer engineering consists of thirty-eight (38) credit hours of required electrical engineering courses. These are: ELN 228, 302, 303, 304, 307, 310, 311, 312, 403, 415, 417, 420, 431, 482, 483, 488, 489, and 515. Students must also take ten (10) credit hours of technical electives, fourteen (14) credit hours in Mathematics, seven (7) credit hours in Computer Programming, eight (8) credit hours in Physics, eight (8) credit hours of general Chemistry, eighteen (18) credit hours in General Engineering courses (EGR), and twenty seven (27) credit hours in General Education courses for a total of 130 credit hours. Students must achieve a minimum grade of "C" in all ELN, EGR, MAT, PHY, CSC and CHE courses to graduate.

Freshman Year			
1st Semester		2nd Semester	
Course	Credits	Course	Credits
ENG101 Written Communications I	3	ENG102 Written Communications II	3
MAT151 Calculus I	4	MAT152 Calculus II	4
CHE201 General Chemistry I	4	CHE202 General Chemistry II	4
PHY203 Intro. to Physics I	3	PHY204 Intro. to Physics II	3
PHY215 Intro. to Physics Lab I	1	PHY216 Intro. to Physics Lab II	1
EGR101 Intro. to Engineering	2	EGR102 Intro. Structured Programming	3
UNV101 Individual and Life	1		
Total	18	Total	18
Sophomore Year			
1st Semester		2nd Semester	
Course	Credits	Course	Credits
MAT260 Diff. Equations	3	HIS106 World Civilization II	3
EGR213 Digital Electronics	3	EGR208 Engineering Analysis	3
CSC151 Computer Programming I	4	CSC152 Computer Programming II	3
EGR219 Engineering Mechanics	3	ELN228 Multivariable Engng Analysis	3
HUM201 Humanities I	3	EGR218 Circuit Analysis I	3
		EGR220 Circuit Analysis Lab I	1
Total	16	Total	16

Junior Year			
1st Semester		2nd Semester	
Course	Credits	Course	Credits
HUMXXX Humanities/Fine Arts Elective	3	HEA200 Health Education	2
ELN303 Engineering Electronics I	3	ELN403 Dig. Electronics Design	3
ELN311 Engineering Electronics Lab I	1	ELN431 Dig. Electronics Design Lab	1
ELN302 Circuit Analysis II	3	ELN307 Signals & Systems	3
ELN310 Circuit Analysis Lab II	1	ELN304 Engineering Electronics II	3
MAT305 Probability & Statistics	3	ELN312 Engineering Electronics Lab II	1
COM103 Oral Communications	3	ELNXXX Technical Elective	4*
Total	17	Total	17
Senior Year			
1st Semester		2nd Semester	
Course	Credits	Course	Credits
ELN482 Computer Eng'g Design I	2	ELN483 Computer Engineering Design II	2
ELN488 Computer Eng'g Design Lab I	1	ELN489 Computer Eng'g Design Lab II	1
ELN415 Computer Architecture	3	ECO201/202 Micro/Macro Economics	3
ELN515 Microcontrollers & Embedded Sys.	3	ELNXXX Technical Elective	3
ELN417 Computer Networks	3	SOCXXX Social Sciences Elective	3
ELNXXX Technical Elective	3	ELN420 Senior Seminar	1
Total	15	Total	13
Total Credit Hours: 130			

* May be satisfied by 1 or 2 courses.