Sample Plan

Bachelor of Science in Computer Engineering (CpE)

This suggested plan applies to students entering in Academic Year 2020-2021 who are ready for calculus.

Semester 1			**Semester 2**		
MA1160[1]	Calculus with Technology 1	4	MA2160	Calculus with Technology 2	4
ENG1101	Engineering Anal./Problem Solving	3	CS1122[8]	Intro. to Programming II	3
CS1121[8]	Intro to Programming I	3	PH2100	Univ. Physics I - Mechanics	3
PH1100	Physics Lab 1	1		Soc. Resp/Ethical Reasoning crse[6]	3
UN1015	Composition[6]	3	UN1025	Global Issues[6]	3
	Total	*14*		Total	*16*
Semester 3			**Semester 4**		
MA2321[2]	Linear Algebra	2	EE2112	Electric Circuits II w/ Lab	4
MA3521[2]	Differential Equations	2	CS2311	Discrete Structures	3
EE2111	Electric Circuits I	3	CS2321	Data Structures	3
EE2174	Digital Logic and Lab	4	PH2200	University Physics II	3
CS1142	Programming at the H/S Interface	3	PH1200	Physics II Lab	1
	Critical/Creative Thinking crse[6]	3			
	Total	*17*		Total	*14*
Semester 5			**Semester 6**		
EE3131	Electronics and Lab	4	EE3173	Hardware/Software Integration	4
CS3331 or …EE3160[3]	*Concurrent Programming or …Signals and Systems*	3	EE3901	Design Fundamentals	2
CS3421	Computer Organization	3	CS3411	Systems Programming	3
MA3710	Engineering Statistics	3	CS4321	Intro. to Algorithms	3
	HASS Comp/Comm. course[6]	3		Math/Science elective	3
				Free electives	2
	Total	*16*		Total	*17*
Semester 7			**Semester 8**		
EE4901[5]	EE Design Project 1 (part 1)	2	EE4910[5]	EE Design Project 2 (part 2)	2
EE4173	Comp Systs Engg & Performance	3		Math/Science elective	3
	CpE Technical elective[4]	3		CpE Technical elective[4,7]	3
	CpE Technical elective[4,7]	3		CpE Technical elective[4,7]	3
EE4272/CS4461	Computer Networks	3		HASS upper level elective[6]	3
	HASS upper level elective[6]	3		HASS elective[6]	3
	Total	*17*		Total	*17*
				Total	**128** Credits

Students must add 3 units of co-curricular activities such as Physical Education, Pep Band, or music lessons.
Follow pre-requisites and semester offerings. This 'suggested' plan can vary by individual student; shows best route through system to avoid conflicts. Students who begin in a pre-calculus course will take ENG1001 and ENG1100 in place of ENG1101 in 1st year.

1. MA1160 may be replaced by MA1161
2. MA2320 and MA3520 may replace MA2321 and MA3521 (MA2320 and MA3520 are taken in separate semesters)
3. Students choose either CS3331, Concurrent Programming, or EE3160, Signals & Systems. Either CS3331 or EE3160 may be taken for technical elective credit if the student desires both CS3331 & EE3160.
4. CpE Technical Electives are taken from the list of approved courses. Choose courses to develop advanced skills in your interest area(s) and gear your education toward a particular career path. Minimum 6 credits upper-level coursework; remaining credits may use ENG1102, ENT3950,ENT3960, and/or up to 4 credits UN3002 (co-op).
5. Approved Engineering Design courses or Enterprise courses may replace EE4901, & EE4910. See department advisor for details
6. Follow university General Education Core and HASS (Humanities, Arts & Social Sciences) requirements.
7. Up to 6 credits "EE" level 4000+ may be double-counted toward the ECE accelerated master's program.
8. CS1131, Accelerated Introduction to Programming, may replace CS1121 and CS1122. Add 1 credit to CpE Technical Electives.