

## Bachelor of Science in Electrical Engineering Engineering Enterprise Concentration (12 cr.)

*This suggested plan applies to students entering in Academic Year 2019-2020 who are ready for calculus.*

<b>Semester 1</b>			<b>Semester 2</b>		
CH1150&1151	Univ. Chemistry I & Lab I	4	PH2100&1100	Univ. Physics I - Mechanics	4
CH1153 <sup>3</sup>	Prob. Solv. Chem. I (optional)	1	ENG1102	Engineering Modeling & Design	3
ENG1101	Engineering Analysis	3	MA2160	Calculus with Technology 2	4
MA1160 <sup>1</sup>	Calculus with Technology 1	4	EE1110	Essential Math for EE's	1
UN1015	Composition	3	EE1111	Intro. to Elec. & Comp. Engg.	1
			UN1025	Global Issues	3
Total		<b>14/15</b>	Total		<b>16</b>
<b>Semester 3</b>			<b>Semester 4</b>		
MA2321 <sup>2</sup>	Linear Algebra	2	EE2112	Electric Circuits II w/lab	4
MA3521 <sup>2</sup>	Differential Equations	2	EE3120	Electric Energy Systems	3
EE 2111	Electric Circuits I	3	EE2174	Digital Logic w/ Lab	4
PH2200&1200	Univ. Physics II Elec & Magnetism	4	MA3160	Multi-variable Calculus	4
CS1111	Intro to Programming in C/C++	3		Soc Resp/Ethical Reasoning course <sup>6</sup>	3
	Critical/Creative Thinking course <sup>6</sup>	3	Total		<b>18</b>
Total		<b>17</b>	Total		<b>18</b>
<b>Semester 5</b>			<b>Semester 6</b>		
EE3131	Electronics	4	EE3901	Design Fundamentals	2
EE3140	Electromagnetics	3	EE3180	Probability – Signal Analysis	3
EE3160	Signals and Systems	3	EE3261	Control Systems	3
	SELECT Approved Elective <sup>3a</sup>	2	EE3171	Microcontroller Applications	4
				2 <sup>nd</sup> Comp/Comm. course <sup>6</sup>	3
ENT2961	Teaming in the Enterprise	2	ENT2962	Communication Contexts	1
ENT3950	Enterprise Project Work III <sup>4</sup>	1	ENT3960	Enterprise Project Work IV <sup>4</sup>	1
Total		<b>15</b>	Total		<b>17</b>
<b>Semester 7</b>			<b>Semester 8</b>		
EE4250	Modern Communication Systems	3		EE elective <sup>5</sup>	3
	EE elective <sup>5</sup>	3		EE elective <sup>5,8</sup>	3
	EE elective <sup>5,8</sup>	3		HASS EC/PSY/SS & HASS elective <sup>6</sup>	6
	HASS HU/FA elective <sup>6</sup>	3		Enterprise instructional module(s)	2
	Enterprise instructional module	1	ENT4960	Enterprise Project Work VI <sup>4</sup>	2
ENT4950	Enterprise Project Work V <sup>4</sup>	2	Total		<b>16</b>
Total		<b>15</b>	Total		<b>128 Credits</b>

Students must add 3 units of co-curricular activities (such as Physical Education), usually taken in six .5 units.

Follow pre-requisites and semester offerings. This is a 'suggested' plan which 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 first year.

1. MA1160 may be replaced by MA1161
2. MA2320 and MA3520 may replace MA2321 and MA3521
- 3a. SELECT Approved Elective: min. 2 cr. from "select approved list", topics recommended by industry professionals.
4. Approved Enterprise Program engineering design courses. See department advisor for details.
5. EE Electives: 12 credits of EE courses not listed here and not EE3010, EE3805, EE4000, EE4805, EE4901, EE4910.
6. HASS = Humanities, Arts and Social Sciences. Follow university requirements for general education courses.
8. Up to 6 credits "EE" level 4000+ may be double-counted toward the ECE accelerated master's program. (ex. red)