

# Bachelor of Science in Electrical Engineering

*This suggested plan applies to students entering in Academic Year 2008-2009 or later*

<b>Semester 1</b>			<b>Semester 2</b>		
CH1100	General Chemistry <sup>1</sup>	4	CS1121	Computer Science 1	3
ENG1101	Engineering 1	3	ENG1102	Engineering 2	3
MA1160	Calculus with Technology 1 <sup>2</sup>	4	MA2160	Calculus with Technology 2	4
PH1100	Physics Lab 1	1	PH2100	University Physics 1	3
UN1001	Perspectives on Inquiry	3	UN1002	World Cultures	4
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>17</b>
<b>Semester 3</b>			<b>Semester 4</b>		
EE2150	Intro to Signal Processing	3	EE2110	Electrical Circuits	3
EE2173	Digital Logic	3	EE2304	Logic and Signals Lab	1
EE 2303	Intro to ECE Lab	1	MA3160	Multi-variable Calculus	4
MA2321	Linear Algebra <sup>3</sup>	2	PH2200	University Physics 2	3
MA3521	Differential Equations <sup>3</sup>	2	UN2002	Institutions	3
PH1200	Physics Lab 2	1		Approved Electives <sup>4</sup> (or EE2190)	3
UN2001	Revisions	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>17</b>
<b>Semester 5</b>			<b>Semester 6</b>		
EE3130	Electronics	3	EE3140	Electromagnetics	3
EE3170	Microprocessors	3	EE3160	Linear Systems and Control	3
EE3305	Advanced Circuits Lab	1	EE3306	Capstone Lab	1
EE 3120	Intro to Energy Systems	3		Approved Electives <sup>4</sup>	3
MA3710	Engineering Statistics OR	3		General Ed. Distribution	3
MA3720	Probability			General Ed. Distribution	3
	General Ed. Distribution	3			
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
<b>Semester 7</b>			<b>Semester 8</b>		
EE4900	Design Fundamentals <sup>5</sup>	1	EE4910	EE Design 2 <sup>4</sup>	3
EE4901	EE Design 1 <sup>5</sup>	2		EE Electives <sup>4</sup>	6
	EE Electives	9		General Ed. Distribution	3
	General Ed. Distribution	3		Free Elective	3
<b>Total</b>		<b>15</b>		Approved Elec & Ma/Sci Elec <sup>4</sup>	2
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>17</b>

Total 128 Credits

Students must add 3 units of co-curricular activities (Physical Education), usually taken in six .5 units. Some electives may be taken in semesters other than suggested. Follow pre-requisites and semester offerings.

1. May substitute 4 credits of approved Math or Science electives.
2. MA1160 may be replaced by MA1161
3. MA2320 and MA3520 may replace MA2321 and MA3520
4. EE Electives: 15 credits of EE courses not listed here and not EE3805, EE3875, EE4805, and EE4875, with at least 3 credits of EE4250, EE4253, EE4256, EE4257, EE4272, or EE4290.  
Approved Electives: 8 credits from approved list with at least 1 credit from Math or Science. See department advisor for details. If CH1100 is not taken, then 12 credits Approved Electives are required with at least 5 credits from Approved Math/Science Electives.
5. Approved Engineering Design courses or Enterprise courses may replace EE4900, EE4901, and EE4910. See department advisor for details