



Electrical Engineering (B.S.) Curriculum and Sample 4-Year Schedule (Proposed, 2021)

General Education Requirements (58 units)

Major Requirements (72 units)

Bible (21 units)			Math & Science (26 units)		
Units	Course #	Course Name	Units	Course #	Course Name
3	B121	Essentials of Christian Thought	3	PS251	Physics I
3	B101	OT Survey I	3		Chemistry I/Lab
3	B102	OT Survey II	3	MA121	Calculus I
3	B201	NT Survey I	3	MA122	Calculus II
3	B202	NT Survey II	3	MA221	Calculus III
3	BTH321	Christian Theology I	2	MA222	Calculus IV
3	BTH322	Christian Theology II	3	MA231	Linear Algebra
			3	MA282	Differential Equations
			3	MA365	Probability
Worldview & Skills (37 units)			Engineering & CS (45 units)		
Units	Course #	Course Name	Units	Course #	Course Name
3	C100	Spoken Communication	3	CIS111	Intro to Comp Programming
3	E110	English Composition	3	CIS112	Data Structures/Algorithms
3		English/World/American Literature	3	CIS322	Software Engineering
3		General Literature Elective	3		Electric Circuits
3	ECN200	Essentials of Economics & Society	3		Electric Circuits Lab
3	H211	Essentials of World History I	3		Digital System Design
3	H212	Essentials of World History II	3		Digital Design Lab
3	H230	Essentials of U.S. History	3		Electromagnetics
3		Biology/Geology	3		Microelectronics
1		Biology/Geology	3		Signals and Systems
3		Music/Art	3		Communication Systems
3	P311	Essentials of Philosophy	9		Upper Div ECE/CS Electives
3	POL220	U.S. Government	3		Senior Design Project

Sample Schedule

<u>Freshman Fall (15 units)</u> Essentials of Christian Thought, OT Survey I Calculus I, Physics I, Spoken Communication	<u>Freshman Spring (16 units)</u> OT Survey II, Calculus II, General Chem I/Lab, English Composition, Essentials of U.S. History
<u>Sophomore Fall (18 units)</u> NT Survey I, Christian Theology I, Intro to Comp Programming, Calculus III, Chemistry I, English/World/American Literature	<u>Sophomore Spring (18 units)</u> NT Survey II, Christian Theology II, Calculus IV, General Lit Elective, Data Structures/Algorithms, Econ & Society, Chemistry I Lab
<u>Junior Fall (18 units)</u> World History I, Electric Circuits/Lab, Differential Equations, Music/Art, U.S. Government	<u>Junior Spring (15 units)</u> World History II, Digital System Design/Lab, Software Engineering, Linear Algebra
<u>Senior Fall (15 units)</u> Essentials of Philosophy, Electromagnetics, Microelectronics, Probability, Elective 1	<u>Senior Spring (15 units)</u> Signals and Systems, Communication Systems, Senior Design Project, Elective 2, Elective 3