

## 2008-2009 Catalog Suggested Course Sequence: A Four-Year Plan for the Completion of a BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING DEGREE

### Old Math Sequence and Old EE Requirements – Optional for students who are sophomores or juniors in 2008-2009.

At least 142-146 total and 64-68 upper-division credits are required for the BS in Electrical Engineering major.

*This course sequence is meant to be used as a **guideline**.*

*Consult with your faculty advisor or academic counselor about modifying this plan to meet your needs, and to reflect any coursework you have already completed prior to enrolling at SPU.*

		Autumn	Winter	Spring	Any Quarter (Check the online Time Schedule for course offerings, and be aware of courses that have prerequisites)
<b>Y E A R  1</b>	Common Curriculum	USEM 1000 (5): University Seminar	UCOR 1000 (5): Arts & the Christian Community OR UFDN 1000 (5): Christian Formation	UCOR 1000 (5): Arts & the Christian Community OR UFDN 1000 (5): Christian Formation	
	Major	<ul style="list-style-type: none"> <li>▪ CSC 1230 (5): Problem Solving and Programming</li> <li>▪ EGR 1402 (2): Intro to Engineering</li> <li>▪ MAT 1225 (5): Calculus (also fulfills Mathematics in EC)</li> </ul>	<ul style="list-style-type: none"> <li>▪ EE 1210 (5): Intro to Logic System Design</li> <li>▪ MAT 1226 (5): Calculus (also fulfills Mathematics in EC)</li> <li>▪ EGR 1125 (1): Study Prep (if required)</li> </ul>	<ul style="list-style-type: none"> <li>▪ CSC 2430 (5): Data Structures</li> <li>▪ MAT 1228 (5): Series and Differential Equations</li> <li>▪ EGR 1125 (1): Study Prep (if required)</li> </ul>	
	Competencies/ Exploratory Curriculum (EC)				<ul style="list-style-type: none"> <li>▪ MAT 0121, 0122, 0123, 0124, 0125 (1 credit each): Arithmetic Review (if needed, as dictated by placement test);</li> <li>▪ ENG 2201 (3): Intermediate College Writing (if needed, as dictated by placement test)</li> </ul>
	Other	Schedule an appointment with an engineering professor to review your planned schedule.			Alternative scheduling options are available. Consult with an engineering professor for more information.
<b>Y E A R  2</b>	Common Curriculum				<ul style="list-style-type: none"> <li>▪ UCOR 2000 (5): The West and the World;</li> <li>▪ UFDN 2000/3001 (5): Christian Scriptures (UFDN 3001 is for those who transfer to SPU with junior or senior class standing upon admission.)</li> </ul>
	Major	<ul style="list-style-type: none"> <li>▪ CHM 1100 (5): Intro to Chemistry Waived if student completed chemistry in high school. (also fulfills Natural Science B in EC)</li> <li>▪ EE 2726 (4): Electric Circuits</li> <li>▪ PHY 1121 (5): Physics for Science &amp; Engineering (also fulfills Natural Science B in EC)</li> </ul>	<ul style="list-style-type: none"> <li>▪ EE 2727 (4): Electric Circuits</li> <li>▪ MAT 2401 (3): Linear Algebra</li> <li>▪ PHY 1122 (5): Physics for Science &amp; Engineering (also fulfills Natural Science B in EC)</li> </ul>	<ul style="list-style-type: none"> <li>▪ EE 3028 (4): Electric Circuits</li> <li>▪ MAT 2228 (3): Multivariable Calculus</li> <li>▪ PHY 1123 (5): Physics for Science &amp; Engineering (also fulfills Natural Science B in EC)</li> </ul>	
	Competencies/ Exploratory Curriculum (EC)				Complete eight credits of exploratory curriculum.
	Other		Apply for admission to the major. A 2.5 GPA is required.		
<b>Y E A R  3</b>	Common Curriculum				UCOR 3000 (5): Belief, Morality, & Modern Mind OR UFDN 3100 (5): Christian Theology
	Major	<ul style="list-style-type: none"> <li>▪ EE 3550 (5): Communication System Analysis</li> <li>▪ EE 3721 (5): Electronics</li> <li>▪ EE 3000 (1): Engineering Seminar</li> </ul>	<ul style="list-style-type: none"> <li>▪ EE 3722 (5): Electronics</li> <li>▪ EE 3760 (5): Computer Organization</li> <li>▪ EE 3410 (5): Signal &amp; System Analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ EE 3280 (5): Microcontroller System Design</li> <li>▪ EE 3730 (5): Electronic Design (also a "W" course)</li> <li>▪ EGR 2220 (2): Engineering Probability and Stats</li> </ul>	<ul style="list-style-type: none"> <li>▪ BIO 2101 (5): General Biology (also fulfills Natural Science A in EC)</li> <li>▪ Begin working toward 17 credits in technical electives (Consult with your faculty advisor for appropriate course selection to meet this requirement.)</li> </ul>
	Competencies/ Exploratory Curriculum (EC)				Complete at least ten credits of GE/EC or Technical electives.
	Other		Apply to graduate once 105 credits and admission to major have been earned.	Create a final-year plan and meet with your faculty advisor for review.	
<b>Y E A R  4</b>	Common Curriculum				UCOR 3000 (5): Belief, Morality, & Modern Mind OR UFDN 3100 (5): Christian Theology (whichever remains unfulfilled)
	Major	<ul style="list-style-type: none"> <li>▪ EE 4211 (3): Microprocessor System Design</li> <li>▪ EGR 4940 (1): Engineering Internship (also a "W" course)</li> </ul>	<ul style="list-style-type: none"> <li>▪ EE 4212 (3): Microprocessor System Design</li> <li>▪ EE 4310 (5): Electro-magnetics</li> </ul>	<ul style="list-style-type: none"> <li>▪ EE 4899 (3): Microprocessor System Design (also a "W" course)</li> <li>▪ EE 4450 (5): Control System Design</li> </ul>	Complete <b>17 credits</b> in technical electives (Consult with your faculty advisor for appropriate course selection to meet this requirement.)
	Competencies/ Exploratory Curriculum (EC)				Complete remaining common/exploratory curriculum requirements (~17 credits).
	Other	<ul style="list-style-type: none"> <li>▪ EGR 4910: FE Prep (recommended).</li> </ul>			