

SPU Electrical Engineering Major Requirements Checklist (2008-2009 Catalog)

For students entering the EE major in 2008-2009.

Name: _____ Expected Graduation Date: _____

ID Number: _____ Advisor signature/Date: _____

1. Mathematics

Number	Course Name	Credits	Transfer #	Advisor Check
MAT 1234	Calculus I ¹	5		
MAT 1235	Calculus II ¹	5		
MAT 1236	Calculus III ¹	5		
MAT 3237	Differential Equations ¹	3		
MAT 2228 or 3238	Vector Calculus	3		
MAT 2401	Linear Algebra	3		

¹ MAT 1225, 1226 and 1228 + additional 3 credits of technical electives may be substituted for MAT 1234, 1235, 1236 and 3237

2. Science and Engineering

Number	Course Name	Credits	Transfer #	Advisor Check
BIO	2000-level or higher (lab-based)	5		
CHM 1100	Intro to Chemistry ²	5		
CSC 1230	Problem Solving and Programming	5		
CSC 2430	Data Structures and Programming	5		
EGR 1125	Engineering Study Prep (if required)	0 - 2		
EGR 1402 or 3402	Intro to Engineering I or II (EGR 3402 required if EE 2726 not taken at SPU)	1-2		
EGR 2200	Engineering Probability and Stats	2		
EGR 4940	Engineering Internship	1		
PHY 1121	Physics for Science and Engineering I	5		
PHY 1122	Physics for Science and Engineering II	5		
PHY 1123	Physics for Science and Engineering III	5		

² CHM 1100 is waived for students who took chemistry in high school. A copy of your high school transcript is required.

3. Electrical Engineering

Number	Course Name	Credits	Transfer #	Advisor Check
EE 1210	Logic System Design	5		
EE 2726	Electric Circuits I	4		
EE 2727	Electric Circuits II	4		
EE 3000	Engineering Seminar	1		
EE 3028	Electric Circuits III	4		
EE 3280	Microcontroller System Design	5		
EE 3410	Signal and System Analysis	5		
EE 3550	Communications System Analysis	5		
EE 3721	Electronics I	5		
EE 3722	Electronics II	5		
EE 3730	Engineering Design	5		
EE 3760	Computer Org. and Assembly Lang.	5		
EE 4211	Senior Design I	3		
EE 4212	Senior Design II	3		
EE 4899	Senior Design III / EE Capstone	3		
EE 4310	Electromagnetics	5		
EE 4450	Control System Design	5		

4. Technical Electives

A list of approved choices is listed in the catalog. **14 or 17 credits of technical electives are required.** See note 1 under Math.

Number	Course Name	Credits	Transfer #	Advisor Check