



## 2016-2017 BS in Electrical Engineering and Physics Dual Degree Plan

Last First Middle SMU Student ID

Dallas Address

Phone Number

Advisor

### MAJOR

Courses	Hours	Semester & Year	Grade
EE 1350 – Introduction to Electrical Engineering <sup>1</sup>	3		
EE 2322 – Electronic Circuits I	3		
EE 2122 – EE Laboratory: Electronic Circuits I	1		
EE 2350 – Circuits Analysis I	3		
EE 2370 – Design & Analysis of Signals & Systems	3		
EE 2170 – EE Laboratory: Design & Analysis of Signals & Systems	1		
EE 2381 – Digital Computer Logic	3		
EE 2181 – EE Laboratory: Digital Computer Logic	1		
EE 3311 – Solid State Devices	3		
EE 3322 – Electronic Circuits II	3		
EE 3122 – EE Laboratory: Electronic Circuits II	1		
EE 3330 – Electromagnetic Field Waves	3		
EE 3352 – Fundamentals of Electric Power Engineering	3		
EE 3360 – Statistical Methods in EE	3		
EE 3372 – Introduction to Digital Signal Processing	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
Advanced EE Elective <sup>2</sup>	3		
Advanced EE Elective <sup>2</sup>	3		
Advanced EE Elective <sup>2</sup>	3		
EE 4311 – Senior Design I	3		
EE 4312 – Senior Design II	3		
<b>TOTAL</b>	<b>56</b>		

### SCIENCE

Courses	Hours	Semester & Year	Grade
CHEM 1303 – General Chemistry I	3		
PHYS 1105 – General Physics Laboratory	1		
PHYS 1303 – Introductory Mechanics	3		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 3305 – Introduction to Modern Physics	3		
PHYS 3344 – Classical Mechanics	3		
PHYS 3374 – Thermodynamics and Statistical Mechanics	3		
PHYS 4211 – Laboratory Physics I	2		
PHYS 4321 – Methods of Theoretical Physics	3		
PHYS 5337 – Introduction to Solid State Physics	3		
PHYS 5382 – Introduction to Quantum Mechanics	3		
PHYS 5383 – Advanced Quantum Mechanics	3		
<b>TOTAL</b>	<b>33</b>		

### MATHEMATICS

Courses	Hours	Semester & Year	Grade
MATH 1337 – Calculus with Analytic Geometry I	3		
MATH 1338 – Calculus with Analytic Geometry II	3		
MATH 2339 – Calculus with Analytic Geometry III	3		
MATH 2343 – Elementary Differential Equations	3		
MATH 3353 – Introduction to Linear Algebra	3		
<b>TOTAL</b>	<b>15</b>		

**COMPUTER SCIENCE**

Courses	Hours	Semester & Year	Grade
CSE 1341 or CSE 1342	3		
<b>TOTAL</b>	3		

**UNIVERSITY CURRICULUM**

	Course or Experience	Hours	Semester & Year	Grade
Discernment and Discourse				
Discernment and Discourse				
Ways of Knowing	KNW 2300			
Quantitative Foundation	MATH 1337	####		
Personal Responsibility and Wellness 1		1		
Personal Responsibility and Wellness 2		1		
Pure and Applied Sciences – Level 1	PHYS1303/1105 or 1304/1106	####		
Pure and Applied Sciences – Level 2	EE 3360	####		
Individuals, Institutions, and Cultures – Level 1				
Individuals, Institutions, and Cultures – Level 2				
Historical Contexts – Level 1				
Historical Contexts – Level 2				
Creativity and Aesthetics – Level 1	CSE 1341	####		
Creativity and Aesthetics – Level 2				
Philosophical and Religious Inquiry and Ethics – Level 1	EE 2381	####		
Philosophical and Religious Inquiry and Ethics – Level 2	EE 3381	####		
Writing 1	EE 3311	####		
Writing 2				
Quantitative Reasoning	MATH 2343	####		
Information Literacy 1				
Information Literacy 2				
Oral Communication 1	KNW 2300	####		
Oral Communication 2	EE 3311	####		
Community Engagement				
Human Diversity				
Global Engagement				
Foreign Language 1				
Foreign Language 2				
<b>TOTAL</b>				

Total TCH: \_\_\_\_\_ (Minimum 130)

**GRADUATION CERTIFICATION:**

Advisor \_\_\_\_\_ Date \_\_\_\_\_

Dept. Chair \_\_\_\_\_ Date \_\_\_\_\_

Assistant Dean \_\_\_\_\_ Date \_\_\_\_\_

<sup>1</sup>Courses that are listed multiple times in the Degree Plan in different sections may satisfy multiple requirements, but their hours apply only once to the total TCH of the major.

<sup>2</sup>To be chosen from EE 5310, EE 5312, EE 5314, EE 5321, EE 5330, EE 5332, EE 5333, EE 5360, EE 5370, EE 5371, EE 5372, EE 5373, EE 5374, EE 5376, EE 5377, EE 5378, EE 5356, EE 5357, EE 5387, EE 5381, EE 5385 or CSE 5385