

Dual Degree Program

Electrical Engineering Sample Curriculum

	WU Course	Fall	Spring
Home Institution (3-4 years)			
Calculus II, III	Math 132, 233	3	3
Differential Equations	Math 217	3	
General Physics I, II	Physics 117A, 118A	4	4
General Chemistry I	Chem 111A	3	
General Chemistry Laboratory I	Chem 151	2	
Computer Science Elective	CSE 131		3
English Composition	ECMP 100		3
Engineering & Science breadth elective			3
Humanities and social science electives		9	9
Additional home institution degree requirements		varies	varies
	Subtotal	60+ to transfer	
First Year of Dual Degree Curriculum at WU			
Introduction to Electrical and Electronic Circuits	ESE 230	4	
Introduction to Electronic Circuits	ESE 232		3
Introduction to Digital Logic and Computer Design	ESE 260		3
Engineering Mathematics A	ESE 318	3	
Engineering Mathematics B	ESE 319		3
Probability and Statistics for Engineering	ESE 326	3	
Engineering Electromagnetics Fundamentals	ESE 330		3
Signals and Systems	ESE 351	3	
Electrical Engineering electives with topics units	ESE XXX		3
Introduction to ESE Research Projects or Engineering Professional Practice*	ESE 297 or ENGR 4502 & 4503	2	
	Subtotal	15	15
Second (Final) Year of Dual Degree Curriculum at WU			
Electrical Engineering electives with topics units	ESE XXX	6	6
Electrical Engineering laboratory	ESE XXX	3	3
Electrical Engineering Design Projects	ESE 498		3
Engineering & Science breadth elective		6	
Engineering Ethics and Sustainability	ENGR 4501	1	
Technical Writing	ENGR 310		3
	Subtotal	16	15
60 units or more must be taken at Washington Univ.	Total	60+ for WU degree	

In selecting elective courses, make sure to select enough courses with engineering topics units so that the total engineering topics units exceeds 45.

*Engineering Professional Practice required if student did not complete 300-400 social science course at their home institution