

Computer Engineering Sample Curriculum

	WashU 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	
Computer Science I, II	CSE 131, 132	3	3
English Composition	CWP 100		3
Humanities and social science electives		9	9
Additional home institution degree requirements		varies	varies
90 units or more of transferable college credit	Subtotal	90+ to transfer	
First Year of Dual Degree Curriculum at WashU			
Logic and Discrete Mathematics	CSE 240	3	
Algorithms and Data Structures	CSE 247	3	
Intro to Digital Logic and Computer Design	CSE 260M		3
Introduction to Systems Software	CSE 361S	3	
Technical Writing	ENGR 310		3
Introduction to Electrical Networks	ESE 230	4	
Introduction to Electronic Circuits	ESE 232		3
Probability and Statistics for Engineering	ESE 326		3
Computer Engineering Technical Electives*	CSE/ESE 3XX-4XX		3
Engineering Professional Practice** or Free Elective	EN 4501, 4502	2	
	Subtotal	15	15
Second Year of Dual Degree Curriculum at WashU			
Computer Architecture	CSE 362M	3	
Computer Engineering Technical Electives*	CSE/ESE 3XX-4XX	6	9
Operating Systems Organization	CSE 422S	3	
Computer Systems Design or Digital Systems Lab.	CSE 462M/CSE 465M	3	
Engineering Professional Practice** or Free Elective	EN 4503		1
Free Elective			5
	Subtotal	15	15
60 units or more must be taken at Washington Univ.	Total	60+ for WU degree	

*At least 18 units of technical electives, drawn from 300-level or higher CSE (with suffix S, M, T, or A) or ESE courses. These units are in addition to the 6 units needed to meet the focus area requirement.

**Engineering Professional Practice suggested to fulfill degree requirement if student did not complete a social science course at the 300-400 or junior/senior level at their home institution.

Master's degree candidates should consult with their faculty advisor regarding graduate courses taken third year.

Note some graduate courses may be necessary second year. 84 minimum WashU residency units are required for the Master's degree.