

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	
Linear Algebra strongly recommended	Math 309		3
General Physics I, II	Physics 191, 192	3	3
General Physics Lab I, II	Physics 191L, 192L	1	1
General Chemistry I	Chem 111A	3	
Intro Computer Science, Computer Science elective	CSE 131, CSE XXX	3	3
English Composition	CWP 100		3
Humanities and social science electives		6	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			
Numbers in bold denote courses typically offered in both fall and spring semesters			
Introduction to Computer Engineering	CSE 132	3	
Algorithms and Data Structures	CSE 247	3	
Applied Linear Algebra for Engineers	ESE 2180	3	
Introduction to Electrical and Electronic Circuits	ESE 230	4	
Technical Writing	ENGR 310	3	
Intro to Digital Logic and Computer Design	CSE 260M		3
Introduction to Systems Software	CSE 361S		3
Introduction to Electronic Circuits	ESE 232		3
Probability and Statistics for Engineering	ESE 326		3
Computer Engineering Technical Electives*			3
	Subtotal	16	15
Second Year of Dual Degree Curriculum at WashU			
Computer Architecture	CSE 362M	3	
Free Elective		3	
Computer Engineering Technical Electives*		9	9
Computer Systems Design or EE Capstone Design	CSE 462M or ESE 498		3
Engineering Professional Practice** or Free Elective	ENGR 4501/4502/4503		3
	Subtotal	15	15
60 units or more must be taken at Washington Univ.	Total	60+ for WU degree	

*Candidates for the BSCoE must complete at least 39 Core and Technical Elective units from approved WashU coursework. For additional information, please consult your WUacheive audit, your Engineering Student Services advisor, and your CSE faculty advisor.

**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.