Dual Degree Engineering Program

Chemical Engineering Sample Curriculum

	WU Course	Fall	Spring
Home Institution (3-4 years)			
Calculus I, II, III	Math 132, 233	3	3
Differential Equations	Math 217	3	
General Chemistry I, II	Chem 111A, 112A	3	3
General Chemistry Laboratory I, II	Chem 151, 152	2	2
General Physics I, II	Physics 191, 192	3	3
General Physics Lab I, II	Physics 191L, 192L	1	1
Organic Chemistry and Lab	Chem 261	4	
Strongly recommended (and can count as a Chemical Engineering Elective*): Physical Chemistry	Chem 401		3
Intro Computer Science (+ MATLAB experience helpful)	CSE 131		3
Principles of Biology (cellular, molecular & developmental bio)	Bio 2960		4
English Composition	CWP 100	3	
Humanities and social science electives		9	6
Additional home institution degree requirements		varies	varies

*Of the 18 total required Chemical Engineering Electives units, 9 must be taken in the ECE. The remaining 9 units are often transferred in from the home institution; upper division chemistry, mathematics, and physics courses are often acceptable. This sample curriculum assumes that only 3 units are transferred in.

MEng candidates may choose to earn both degrees after the third year, which allows for spreading out the coursework. Consult with ECE faculty advisor regarding a modified undergraduate/graduate course sequence. 84 minimum WashU residency units are required for MEng degree.

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