

The Engineering and Public Policy additional major degree is intended to complement the technical nature of the traditional engineering degree with a set of courses focused on the connection between technical issues and society/policy. The EPP additional major curriculum is designed to be completed in the usual 8-semester time frame of an undergraduate degree. The columns on the left show the course requirements for the traditional major, while the columns on the right show the corresponding course requirements for the traditional major with the EPP additional major.

Materials Science and Engineering**Materials Science and Engineering and Engineering and Public Policy**

Engineering Courses			Engineering Courses		
		Units			Units
27-100	Engineering the Materials of the Future	12	27-100	same	12
xx-xxx	Other Introductory Engineering Elective	12	19-101	<i>Introduction to Engineering and Public Policy</i>	12
27-201	The Structure of Materials	9	27-201	same	9
27-202	Defects in Materials	9	27-202	same	9
27-210	Materials Engineering Essentials	6	27-210	same	6
27-215	Thermodynamics of Materials	12	27-215	same	12
27-216	Transport in Materials	9	27-216	same	9
27-217	Phase Relations and Diagrams	12	27-217	same	12
27-301	Microstructure and Properties I	9	27-301	same	9
27-305	Introduction to Material Characterization	6	27-305	same	6
27-367	Selection and Performance	6	27-367	same	6
27-401	MSE Capstone Course I	6	27-401	same	6
27-402	MSE Capstone Course II	6	27-402	same	6
27-xxx	MSE Restricted Elective [1]	9	27-xxx	same	9
27-xxx	MSE Restricted Elective [2]	9	27-xxx	same	9
27-xxx	MSE Restricted Elective [3]	9	27-xxx	same	9
27-xxx	MSE Restricted Elective [4]	9	27-xxx	same	9
xx-xxx	MSE Approved Technical Elective	9	xx-xxx	same	9
Math and Science Courses			Math and Science Courses		
		Units			Units
21-120	Differential and Integral Calculus	10	21-120	same	10
21-122	Integration and Approximation	10	21-122	same	10
21-254	Linear Algebra & Vector Calculus	11	21-254	same	11
21-260	Differential Equations	9	21-260	same	9
33-141	Physics I for Engineering Students	12	33-141	same	12
33-142	Physics II for Engineering and Physics Students	12	33-142	same	12

09-105	Intro to Modern Chemistry 1	10	09-105	same	10
15-11x	Principles of Computing/Fund of Programming	10	15-11x	same	10
xx-xxx	Restricted MSE Science Course	9	xx-xxx	same	9
36-220	Engineering Statistics and Quality Control	9	36-220	<i>Engineering Statistics and Quality Control</i>	9

CIT General Education Courses		Units	CIT/EPP Non-technical courses		Units
99-101	Core @ Carnegie Mellon	3	99-101	same	3
39-210	Experiential Learning I	0	39-210	same	0
39-220	Experiential Learning II	0	39-220	same	0
39-310	Experiential Learning III	0	39-310	same	0
76-10x	First-Year Writing Requirement	9	76-10x	same	9
	Social Analysis and Decision Making (SDM)	9		<i>EPP-approved Decision Science course</i>	9
	Writing and Expression (W&E)	9		<i>EPP-approved Writing and Communications course</i>	9
	Innovation & Internationalization (I&I)	9		same	9
	Peoples, Places, and Cultures (PPC)	9		same	9
	General Education Elective [1]	9		same	9
	General Education Elective [2]	9		<i>EPP-approved Economics course</i>	9
	General Education Elective [3]	9	19-351	<i>Applied Methods for Technology-Policy Analysis</i>	9

Free Electives		Units	Free Electives		Units
		45	19-201	<i>Professional Issues in Engineering, Science, Technology and Public Policy</i>	1
				<i>EPP Technology-Policy Elective [1]</i>	var
				<i>EPP Technology-Policy Elective [2]</i>	var
				<i>EPP Technology-Policy Elective [3]</i>	var
			19-451	<i>EPP Projects I</i>	12
			19-452	<i>EPP Projects II</i>	12
				free elective units to meet 45 unit minimum	var
Total Units (minimum)		381	Total Units (minimum)		381

EPP Technology-Policy Electives are courses that address the connections between technology and society. Students work with their advisors to select approved courses appropriate to their interests. Research credits, in EPP or another department, can be used for EPP Technology-Policy Elective credits with prior approval. EPP Technology-Policy Electives may fulfill General Education requirements.