

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.

Mechanical Engineering**Mechanical Engineering and Engineering and Public Policy**

Engineering Courses			Engineering Courses		
		Units			Units
24-101	Fundamentals of Mechanical Engineering	12	24-101	same	12
xx-xxx	Other Introductory Engineering Elective	12	19-101	<i>Introduction to Engineering and Public Policy</i>	12
24-2xx	Manual Machining / Electronics for Sensing	3	24-2xx	same	3
24-221	Thermodynamics I	10	24-221	same	10
24-231	Fluid Mechanics	10	24-231	same	10
24-261	Mechanics I: 2D Design	10	24-261	same	10
24-262	Mechanics 2: 3D Design	10	24-262	same	10
24-302	Professional Development for MechE	2	24-302	same	2
24-311	Numerical Methods	10	24-311	same	10
24-321	Thermal-Fluids Experimentation and Design	12	24-321	same	12
24-322	Heat Transfer	10	24-322	same	10
24-351	Dynamics	10	24-351	same	10
24-352	Dynamic Systems and Control	12	24-352	same	12
24-370	Mechanical Design: Methods and Applications	12	24-370	same	12
24-441	Product Design or other approved capstone	12	24-441	same	12
24-452	Mechanical Systems Experimentation	9	24-452	same	9
24-xxx	Mechanical Engineering Technical Elective	9	24-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
15-11x	Principles of Computing/Fund of Programming	10	15-11x	same	10

09-1xx	Modern Chemistry I / Nanolegos: Chem Building Bloc	9	09-1xx	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
Student complete additional units as required to meet the program 382 minimum, approx 45 units		var	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 382 unit minimum	var
Total Units (minimum)		382	Total Units (minimum)		382

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.