

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, with minimal overload of courses or units. 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		Units	Engineering Courses		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
24-200	Machine Shop Practice	1	24-200	same	1
24-202	Introduction to Computer Aided Design	1	24-202	same	1
24-281	Introduction to Scientific Computing	2	24-281	same	2
24-302	Mechanical Engineering Seminar	2	24-302	same	2
24-221	Thermodynamics I	10	24-221	same	10
24-261	Statics	10	24-261	same	10
24-231	Fluid Mechanics	10	24-231	same	10
24-262	Stress Analysis	10	24-262	same	10
24-311	Numerical Methods	12	24-311	same	12
24-322	Heat Transfer	10	24-322	same	10
24-351	Dynamics	10	24-351	same	10
24-370	Design I: Methods and Skills	12	24-370	same	12
24-321	Thermal-Fluids Experimentation and Design	12	24-321	same	12
24-352	Dynamic Systems and Control	12	24-352	same	12
24-441	Engineering Design II: Conceptualization and Realization	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

Students must complete all required courses for the Mechanical Engineering Bachelor degree.

Math and Science Courses		Units	Math and Science Courses		Units
21-120	Differential and Integral Calculus	10	21-120	same	10
21-122	Integration, Differential Equations and Approximation	10	21-122	same	10
21-259	Calculus in Three Dimensions	9	21-259	same	9

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	Introduction to Modern Chemistry I	10	09-105	same	10
xx-xxx	Restricted MSE science elective	9	xx-xxx	same	9
	Science lab requirement (minimum 3 units)	3		same	3
36-220	Engineering Statistics and Quality Control	9	19-250	Statistical Models for Engineering Analysis and Design or	9
			36-220	<i>Engineering Statistics and Quality Control</i>	9
CIT General Education Courses		Units	CIT/EPP Non-technical courses		Units
99-101	Computing @ 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	73-102	<i>Principles of Microeconomics</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>EPP Sophomore Seminar</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
				<i>19451 / 19452 EPP Project (1)</i>	12
				<i>19451 / 19452 EPP Project (2)</i>	12
				free elective units to meet 45 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 select courses from a list of approved courses, which is updated each semester. Students can also petition for courses to be approved for EPP Electives.

Research credits, in EPP or another department, can be substituted for EPP Technology-Policy Elective credits with prior approval. EPP Technology-Policy Electives may fulfill General Education requirements.