

**Mechanical Engineering**

**Mechanical Engineering  
and Engineering and Public Policy**

<b>Freshman Fall</b>	<b>Units</b>	<b>Freshman Fall</b>	<b>Units</b>
24-101 Fundamentals Mechanical Engineering	12	Same	12
21-120 Differential and Integral Calculus	10	Same	10
33-141 Physics I for Engineering Students	12	Same	12
99-101 Computing @ Carnegie Mellon	3	Same	3
xx-xxx General Education [1]	9	76-101 Interpretation and Argument	9
<b>Freshman Spring</b>	<b>Units</b>	<b>Freshman Spring</b>	<b>Units</b>
xx-xxx Intro Engineering Elective (other than MechE)	12	19-101 Intro to Engineering and Public Policy	12
21-122 Integration and Approximation	10	Same	10
15-100 Principles of Computing	10	Same	10
xx-xxx General Education [2]	9	73-102 Principles of Microeconomics	9
<b>Sophomore Fall</b>	<b>Units</b>	<b>Sophomore Fall</b>	<b>Units</b>
24-221 Thermodynamics I	10	Same	10
24-261 Statics	10	Same	10
24-200 Machine Shop Practice	1	Same	1
21-259 Calculus in 3D	9	Same	9
33-142 Physics II for Engineering Students	12	Same	12
39-210 Experiential Learning I	0	Same	0
xx-xxx General Education [3]	9	EPP Writing and Communications Elective	9
		19-201 EPP Sophomore Seminar	1
<b>Sophomore Spring</b>	<b>Units</b>	<b>Sophomore Spring</b>	<b>Units</b>
24-202 Intro to Computer Aided Design	1	Same	1
24-231 Fluid Mechanics	10	Same	10
24-262 Stress Analysis	12	Same	12
21-260 Differential Equations	9	Same	9
09-105 Intro to Modern Chemistry I	10	Same	10
Science Lab requirement	3-6	Same	3-6
39-220 Experiential Learning II	0	Same	0
xx-xxx General Education [4]	9	36-220 Engineering Statistics and Quality Control	9

<b>Junior Fall</b>	<b>Units</b>	<b>Junior Fall</b>	<b>Units</b>
24-302 Mechanical Engineering Seminar I	2	Same	2
24-322 Heat Transfer	12	Same	12
24-351 Dynamics	10	Same	10
24-370 Engineering Design I: Methods and Skills	10	Same	10
36-220 Engineering Statistics & Quality Control	9	xx-xxx General Education	9
39-310 Experiential Learning III	0	Same	0
xx-xxx General Education [5]	9	EPP Decision Science Elective	9
<b>Junior Spring</b>	<b>Units</b>	<b>Junior Spring</b>	<b>Units</b>
24-321 Thermal-Fluids Experimentation & Design	12	Same	12
24-352 Dynamic Systems and Controls	12	Same	12
24-311 Numerical Methods	12	Same	12
xx-xxx General Education [6]	9	19-351 Applied Methods for Technology Policy Analysis	9
<b>Senior Fall</b>	<b>Units</b>	<b>Senior Fall</b>	<b>Units</b>
24-441 Engineering Design II: Conceptualization and Realization	12	Same	12
24-452 Mechanical Systems Experimentation	9	Same	9
xx-xxx General Education [7]	9	Same	9
xx-xxx Free Elective [1]	*	EPP Technology Policy Elective [1]	*
xx-xxx Free Elective [2]	*	19-451/19-452 EPP Projects [1]	12
<b>Senior Spring</b>	<b>Units</b>	<b>Senior Spring</b>	<b>Units</b>
24-xxx Mechanical Engineering Technical Elective	9-12	Same	9-12
xx-xxx General Education [8]	9	Same	9
xx-xxx Free Elective [3]	*	EPP Technology Policy Elective [2]	*
xx-xxx Free Elective [4]	*	EPP Technology Policy Elective [3]	*
xx-xxx Free Elective [5]	*	19-451/19-452 EPP Projects [2]	12
Minimum Units Required:	382		382

\* A minimum of 45 free elective units are required for Mechanical Engineering. EPP students take 1 unit of EPP Sophomore Seminar and 24 units of EPP Projects as free elective units. The 24 units of EPP Technology Policy electives may be free electives or may fulfill requirements for general education. This is an example semester-by-semester plan only. Students should discuss course progress with advisors in both MechE and EPP to ensure all requirements for both departments and for CIT are completed.