

Students Entering Fall 2022 and after

Mechanical Engineering

**Mechanical Engineering
and Engineering and Public Policy**

First Year Fall	Units	First Year Fall	Units
24-101 Fundamentals of 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
76-xxx First-Year Writing Requirement	9	Same	9
First Year Spring	Units	First Year Spring	Units
xx-xxx Second Introductory Engineering Course	12	19-101 Intro to Engineering and Public Policy	12
21-122 Integration and Approximation	10	Same	10
xx-xxx Physics II/Chemistry/Computer Science	10-12	Same	10-12
xx-xxx General Education Course 1	9	73-102 Principles of Microeconomics	9
Second Year Fall	Units	Second Year Fall	Units
24-221 Thermodynamics	10	Same	10
24-261 Mechanics I – 2D Design	10	Same	10
24-200 Machine Shop or 24-251 Electronics for Sensing and Actuation	1-3	Same	1-3
21-260 Differential Equations	9	Same	9
xx-xxx Physics II/Chemistry/Computer Science	10-12	Same	10-12
39-210 Experiential Learning I	0	Same	0
xx-xxx General Education Course 2	9	36-220 Engineering Statistics and Quality Control	9
		19-201 EPP Sophomore Seminar	1
Second Year Spring	Units	Second Year Spring	Units
24-231 Fluid Mechanics	10	Same	10
24-262 Mechanics 2: 3D Design	10	Same	10
21-254 Linear Algebra and Vector Calculus for Engineers	11	Same	11
24-200 Machine Shop or 24-251 Electronics for Sensing and Actuation	1-3	Same	1-3
xx-xxx Physics II/Chemistry/Computer Science	10-12	Same	10-12
xx-xxx Lab requirement	*	Same	*
39-220 Experiential Learning II	0	Same	0
xx-xxx General Education Course 3	9	xx-xxx EPP Writing and Communications Elective	9

Third Year Fall	Units	Third Year Fall	Units
24-322 Heat Transfer	10	Same	10
24-351 Dynamics	10	Same	10
24-370 Mechanical Design: Methods and Applications	12	Same	12
36-xxx Engineering Statistics Requirement	9	xx-xxx General Education Course	9
39-310 Experiential Learning III	0	Same	0
xx-xxx General Education Course 4	9	xx-xxx EPP Decision Science Elective	9
Third Year Spring	Units	Third Year Spring	Units
24-302 Mechanical Engineering Seminar I	2	Same	2
24-311 Numerical Methods	12	Same	12
24-321 Thermal-Fluids Experimentation	12	Same	12
24-352 Dynamic Systems and Controls	12	Same	12
xx-xxx General Education Course 5	9	19-351 Applied Methods for Technology Policy Analysis	9
Fourth Year Fall	Units	Fourth Year Fall	Units
24-xxx Mechanical Design Capstone Course	12	Same	12
24-452 Mechanical Systems Experimentation	9	Same	9
xx-xxx General Education Course 6	9	Same	9
xx-xxx Elective	*	xx-xxx EPP Technology Policy Elective 1	*
xx-xxx Elective	*	19-451 EPP Projects 1	12
Fourth Year Spring	Units	Fourth Year Spring	Units
24-xxx Mechanical Engineering Technical Elective	*	Same	*
xx-xxx General Education Course 7	9	Same	9
xx-xxx Elective	*	xx-xxx EPP Technology Policy Elective 2	*
xx-xxx Elective	*	xx-xxx EPP Technology Policy Elective 3	*
xx-xxx Elective	*	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.