

Time Priority	Minimum Semesters to Graduation	Course	Description	Units	PRE-REQUISITES See the SJSU Catalog for most accurate and updated details.	Has prerequisite or corequisite relevance for...
1	8	<a href="#">MATH 030</a>	Calculus I	3	See details at <a href="https://catalog.sjsu.edu/preview_course_nopop.php?catoid=10&amp;coid=41218">https://catalog.sjsu.edu/preview_course_nopop.php?catoid=10&amp;coid=41218</a>	Math 31, Phys 50
2	7	<a href="#">MATH 031</a>	Calculus II	4	MATH 30 or MATH 30X with a grade of B or better.	Math 32, Phys 51, CE 95, MatE 25
2	7	<a href="#">PHYS 050</a>	Mechanics	4	See details at <a href="https://catalog.sjsu.edu/preview_course_nopop.php?catoid=10&amp;coid=40939">https://catalog.sjsu.edu/preview_course_nopop.php?catoid=10&amp;coid=40939</a>	Phys 51, CE 95, MatE 25
4	6	<a href="#">MATH 032</a>	Calculus III	3	MATH 31 or MATH 31X with a grade of B or better.	Math 33A, ME 101, ME 111, ME 113
5	6	<a href="#">PHYS 051</a>	Electricity and Magnetism	4	PHYS 50, MATH 31 or MATH 31X, both with grades of "C-" or better.	Phys 52, EE 98
6	6	<a href="#">ENGR 010</a>	Introduction to Engineering	3	ENGL 1A with grades of C- or better and eligible for MATH 19	ME 20
7	5	<a href="#">PHYS 052</a>	Heat and Light	4	PHYS 51 with grade of "C-" or better.	ME 113
8	5	<a href="#">CHEM 001A</a>	General Chemistry	5	See details at <a href="https://catalog.sjsu.edu/preview_course_nopop.php?catoid=10&amp;coid=40808">https://catalog.sjsu.edu/preview_course_nopop.php?catoid=10&amp;coid=40808</a>	MatE 25
9	5	<a href="#">CE 095</a>	Statics	3	MATH 31X or MATH 31, and PHYS 50.	CE 112, ME 101, ME 111
10	5	<a href="#">MATH 33A</a>	Ordinary Differential Equatio	3	MATH 32 or MATH 32H or MATH 32X (with a grade of "C-" or better) or instructor consent.	EE 98, CE 112, ME 114, ME 130
11	4	<a href="#">MATE 025</a>	Introduction to Materials	3	CHEM 1A, PHYS 50, and MATH 31 or MATH 31X; all with a grade of "C-" or better.	ME 154
12	4	<a href="#">ME 020</a>	Design and Graphics	2	Coreq: ENGR 10.	ME 41, ME 154
12	4 or 2	<a href="#">ME 030</a>	Computer Applications	3	(None)	ME 106
12	4 or 2	<a href="#">EE 098</a>	Introduction to Circuit Analy	3	PHYS 51 with a C- or better. Coreq: MATH 33A or MATH 33LA.	ME 106
15	4	<a href="#">CE 112</a>	Mechanics of Materials	3	CE 95 or CE 99, MATH 33A.	ME 120, ME 154
16	4	<a href="#">ME 101</a>	Dynamics	3	CE 95 or CE 99, and MATH 32 or MATH 32X (each with a grade of "C-" or better).	ME 130, ME 154
16	4	<a href="#">ME 113</a>	Thermodynamics	4	PHYS 52, and MATH 32 or MATH 32X (with a grade of 'C-' or better in each), Corequisite: ME 111	ME 114, ME 130
23	4	<a href="#">ME 111</a>	Fluid Mechanics	3	CE 95 or CE 99, and MATH 32 or MATH 32X	ME 182, ME 113
18	3	<a href="#">ENGR 100W</a>	Engineering Reports	3	ENGL 1B	ME 120, ME 195A, ENGR 195A
19	3	<a href="#">ME 041</a>	Machine Shop Safety	1	ME 20, TECH 20A, CE 20 or equivalent.	ME 154
20	3	<a href="#">ME 154</a>	Mechanical Engineering Desi	4	ME 20, ME 101, CE 112, MATE 25, all with a C- or better. Corequisite(s): TECH 41/ME 41	ME 157, ME 195A
20	3	<a href="#">ME 114</a>	Heat Transfer	3	MATH 33A or MATH 33LA, and ME 113 (each with a grade of 'C-' or better).	ME 115, ME 182, ME 195A
22	3 or 2	<a href="#">ME 130</a>	Applied Engineering Analysis	3	MATH 33A and ME 101 (each with a grade of "C-" or better). Pre/Corequisite(s): ME 113.	ME 120, 147, ME 157
24	3 or 1	<a href="#">ME 106</a>	Fund. of Mechatronics Engr.	4	EE 98 and ME 30 (each with a grade of "C-" or better ).	ME 190
25	2	<a href="#">ME 120</a>	Experimental Methods	2	CE 112 and ENGR 100W (with a grade of 'C-' or better in each). Corequisite: ME 130.	ME 195A
26	2	<a href="#">ME 195A</a>	Senior Design Project I	3	ME 114, ME 154 ('C-' or better) and ENGR 100W ('C' or better). Corequisite: ME 120, capstone course	ME 195B, ENGR 195A
26	2	<a href="#">ENGR 195A</a>	Global and Societal Issues	1	ENGR 100W with a C or better, and concurrent enrollment in ME 195A.	ENGR 195B
28	2 or 1	<a href="#">ME 147</a>	Dynamic Syst. Vib. and Contr	3	ME 130 (with a grade of 'C-' or better).	ME 190
29	2	<a href="#">ME 190</a>	Mechatronics System Design	3	ME 106 (with a grade of 'C-' or better). Corequisite: ME 147.	(none)
29	2	<a href="#">ME 157</a>	Mechanical System Design (c	3	ME 130 (note: required officially, but not strictly enforced right now), ME 154 with 'C-' or better.	(none)
29	2	<a href="#">ME 182</a>	Thermal Systems Design (cap	3	ME 114, and either ME 111 or AE 160 (with a grade of 'C-' or better in each).	(none)
32	1	<a href="#">ME 195B</a>	Senior Design Project II	3	ME 195A with a C- or better.	Engr 195B
32	1	<a href="#">ENGR 195B</a>	Global and Societal Issues	1	ENGR 195A (with a grade of "C" or better), and concurrent enrollment in ME 195B.	(none)
33	1	<a href="#">ME 115</a>	Thermal Engineering Laborat	1	Pre/Corequisite(s): ME 114.	(none)

Last updated: 4/29/2025