

SAN JOSE STATE UNIVERSITY

Bachelor of Science Degree in MECHANICAL ENGINEERING

FRESHMAN YEAR

Fall	Units	Spring	
Math 30, Calculus 1	3	Math 31, Calculus II	4
Chem 1A, General Chemistry	5	Physics 50, Mechanics	4
Engr 10, Intro to Eng (GE Area E)	3	ME 30, Computer Applications	2
English 1A, Composition (GE Area A2)	3	Communications (GE Area A1)	3
ME 20, Design and Graphics	2	English 1B, Composition II	3
Total	16	Total	16

SOPHOMORE YEAR

Fall		Spring	
Math 32, Calculus III	3	Math 133A, Differential Equations	3
MatE 25, Intro to Materials	3	CE 95, Statics	3
Phys 51, Electricity and Magnetism	4	Physics 52, Atomic, Heat and Light	4
GE (Areas C1, D2)/Am Studies 1A	6	GE (Areas C2, D3)/Am Studies 1B	6
Total	16	Total	16

JUNIOR YEAR

Fall		Spring	
CE 112, Mechanics of Materials	3	ME 106, Fund. Mechantronics Eng.	3
ME 101, Dynamics	3	ME 114, Heat Transfer	3
ME 111, Fluid Mechanics	3	ME 130, Applied Engr Analysis	3
ME113, Thermodynamics	4	ME 41, Shop Safety	1
EE 98, Intro. To Circuit Analysis	3	ME 154, Mech. Engr. Design	4
		ENGR 100W, Engr. Reports	3
Total	16	Total	17

SENIOR YEAR

Fall		Spring	
Capstone Course (ME 157, 182, or 190)	3	ME 195B, Senior Design Project II	3
ME 115, Thermal Engineering Lab	1	ENGR 195B, (GE Area S/V)	1
ME 120, Experimental Methods	2	Technical Electives	6
ME 147, Dyn Sys Vib & Control	3		
ME 195A, Senior Design Project I	3		
ENGR 195A, (GE Area S/V)	1		
Total	13	Total	10

MINIMUM UNITS FOR GRADUATION: 120

Students must pass the placement tests to enroll in Math 30 and English 1A.

KIN and General Education requirements in Area A3 and all of Area B are waived or satisfied by the major.

AMS 1A,B cover GE Areas C1, C2, D1, D2, D3, and F; or choose D2/D3 courses that double count in F1-3.

A D1 course must be taken if AMS 1a,1b is not chosen.

Students are encouraged to take the WST as soon as possible after completeing Engr 1B.

Math and physics workshops (Math 30W, 31W, Phys 50W) are recommended but not required.