

# 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 (GE Area C3)	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>

### 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
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>

### 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
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

### 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		
<b>Total</b>	<b>13</b>	<b>Total</b>	<b>10</b>

#### 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 Engl 1B.

Effective Fall 2014