

Mechanical Engineering Undergraduate Advising Form

San Jose State University

Name _____

SJSU ID _____

Email Address _____

Date _____

Currently Enrolled Semester _____ Year _____

Class	Description	Units
Total:		

Estimated current overall SJSU GPA: _____

Job or other fixed-obligation hours/week: _____

Recommended minimum hours dedicated to academics:
16 units: 54 hr/wk 12 units: 40 hr/wk 6 units: 20 hr/wk

Plan for Upcoming Semester _____ Year _____

Class	Description	Units
Total:		

Student Signature _____

Advisor Signature _____

Optional Look-Ahead Semester _____ Year _____

Class	Description	Units
Total:		

✓ BSME requirements by timing priority	Units	Prerequisites (see SJSU Catalog for most current and accurate details)	Is a prerequisite or corequisite for...
MATH 030 Calculus I	3	See http://info.sjsu.edu/web-dbgen/catalog/courses/MATH030.html	Math 31, Phys 50
MATH 031 Calculus II	4	MATH 030 or MATH 030P (with "C-" or better).	Math 32, Phys 51, CE 95, MatE 25
PHYS 050 Mechanics	4	3 or better on AP Calc Test or 'C' or better in Math 30 or Math 30P.	Phys 51, CE 95, MatE 25
MATH 032 Calculus III	3	MATH 31 (with "C-" or better).	Math 133A, ME 101, ME 111, ME 113
PHYS 051 Electricity and Magnetism	4	PHYS 050, MATH 031, both with grades of "C" or better.	Phys 52, EE 98
ENGR 010 Intro to Engineering	3	Eligible for MATH 019 or ENGL 001A. Math remediation completed.	ME 20, EE 98
CHEM 001A General Chemistry	5	See http://info.sjsu.edu/web-dbgen/catalog/courses/CHEM001A.html	MatE 25 (also note 5-unit workload)
CE 095 Statics	3	MATH 031, PHYS 050.	CE 112, ME 101, ME 111
MATH 133A Ord. Diff. Eqns.	3	MATH 32 (with "C-" or better).	EE 98, CE 112, ME 114, ME 130
PHYS 052 Heat and Light	4	PHYS 051 and Math 31 both with grade of "C" or better.	ME 113
ME 020 Design and Graphics	2	Coreq: ENGR 10.	ME 41, ME 154
MATE 025 Introduction to Materials	3	CHEM 001A; PHYS 050; MATH 031.	ME 154
ME 030 Computer Applications	2	(None)	ME 106
EE 098 Intro to Circuit Analysis	3	ENGR 10 and Phys 51 with a C or better. Coreq: MATH 133A or MATH 123.	ME 106
CE 112 Mechanics of Materials*	3	CE 95 or CE 99, Math 133A	ME 120, ME 154
ME 101 Dynamics*	3	CE 95 or CE 99 and MATH 032 (with 'C-' or better in each).	ME 130, ME 154
ME 113 Thermodynamics*	4	PHYS 052 and MATH 032 (with 'C-' or better in each).	ME 114, ME 130
ME 041 Machine Shop Safety**	1	ME 020, TECH 020, CE 020 or equivalent.	ME 154
ME 154 Mech. Engr. Design**	4	ME101, ME20, CE112, MatE 25, all with a C- or better. Coreq: ME 41.	ME 195A, ME 157
ME 114 Heat Transfer**	3	MATH 133A or MATH 123, and ME 113 (with 'C-' or better in each).	ME 115, ME 195A, ME 182
ENGR 100W Engineering Reports**	3	ENGL 1B (with C or better); WST passing score or completion of LLD 100A.	ME 120, ME 195A, Engr 195A
ME 130 Applied Engr. Analysis	3	MATH 133A, ME 101 (with 'C-' or better in each). Pre/Co: ME 113.	ME 120, ME 147, ME 157
ME 111 Fluid Mechanics	3	CE 95 or CE 99 and MATH 032 (with "C-" or better in each).	ME 182
ME 106 Fund. of Mechatronics	3	EE 098 and ME 030 (with 'C-' or better in each).	ME 190
ME 120 Experimental Methods	2	CE 112, ENGR 100W (with a grade of 'C-' or better). Coreq: ME 130.	ME 195A
ME 115 Thermal Engr. Lab	1	Coreq: ME 114.	(none, but synergistic with ME 114)
ME 195A Senior Design Project I	3	ME 114, ME 154 and ENGR 100W (with 'C-' or better in each). Pre/Co: ME 120.	ME 195B, Engr 195A
ME 147 Dyn. Syst. Vib. and Control	3	ME 130 (with 'C-' or better).	ME 190
ME 157 Mechanical System Design	3	ME 154, ME 130 with a grade of th 'C-' or better. Coreq: ME 110 (tech. elective).	(none) Pick <u>one</u> of these three courses, and pay close attention to prerequisites.
ME 190 Mechatronics Syst. Design	3	ME 106 (with 'C-' or better). Coreq: ME 147.	
ME 182 Thermal Systems Design	3	ME 114, and either ME 111 or AE 160 (with 'C-' or better in each).	
ENGR 195A Global and Societal Issues	1	ENGR 100W with a C or better and co-enrollment in ME 195A.	Engr 195B
ME 195B Senior Design Project II	3	ME 195A with a C- or better.	Engr 195B
ENGR 195B Global and Societal Issues	1	ENGR 195A (with "C" or better) and co-enrollment in ME 195B.	(none)

* At least 2 years remaining from the start of these classes. ** Must be completed prior to senior project year (ME 195 A/B). In addition, two technical electives (not shown) are required.

CORE GE FOR ALL BSME STUDENTS		Units	Notes
Engl 1A	First Year Writing	3	Satisfies GE Area A2
Engl 1B	Argument and Analysis	3	Satisfies GE Area C2
GE Area A1	(Oral Communication)	3	Popular options: COMM 20 COMM 40, MAS 074.
GE Area E	(Human Und. & Dev.)	3	Fulfilled by ENGR 10 if taken at SJSU. Fulfill separately if transferring.
GE OPTION 1: AMS 1A/1B		Units	Notes
AMS 1A	American Civilization	6	AMS 1A/1B sequence satisfies C1, C2; D2, D3; US1, 2, 3; also exempts ME students from D1.
AMS 1B	American Civilization	6	
GE OPTION 2: Custom Selection		Units	Notes
GE Area C1	(Arts)	3	Can be area C1 or C2.
GE Area C	(Arts and Letters)	3	
GE Area D1	(Human Behavior)	3	Not required if taking AMS 1A/1B.
GE Area D2	(Comparative Systems)	3	Combination of HIST 15/POLS 15, AAS 33A/33B, AFAM 2A/2B, or CCS 10A/10B will fulfill D2, D3, and US1, 2, 3.
GE Area D3	(Social Issues)	3	

Comments: