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 competion 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 one 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	
	GE Area C	(Arts and Letters)	3	Can be area C1 or C2.
	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:

2019 October 14