## CAL POLY

Updated 11/15/2019

Million Mark / His 126 (c)         Mark mark /	FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Operation of ME Bet 139 - (1) Bet 130 - (	ME 128 <sup>(1)</sup> 1st gtr freshman year.	ME 129^ (1)	ME 130^ (1)	ME 234 (3) (Soph standing) Measurement & Engineering Data Analysis			ME 328 (4) (BMED 212 or ME 234; CE 207; CPE/CSC 101 or CSC 231 or 234; MATE 210; ME 212 & 251. ME 1414, TP 3414 or ME			ME 420 (4)		
Juil	ME 163^ (1)	IME 145 (1)	IME 146 (1) (IME 145; Concur: ME	Engineering Statics ME 211 (3) (MATH 241†, PHYS 131 or 141)	Engineering Dynamics ME 212 (3) (MATH 241; ME 211	Therm ME 302 (3) Fluid I	odynamics I (ME 212 & PHYS 132) Mechanics I	Mechanical Sy ME 329 ( Thermody ME 303 (	(4) (ME 328) ynamics II			
Calculus II       MATH 1424 (4)       MATH 244 (4)       Mechanics of       Mechanics of <td< td=""><td colspan="3">Manufacturing Processes: Materials Joining IME 142 (2) Manufacturing Processes Elective</td><td colspan="2">Design ME 251 (2) (ME 130 or 228. Recom: IME 143) MATE &amp; L MATE 210 (3)</td><td>&amp; MATE 215 (1)</td><td>(CPE/CSC 101 or CSC :</td><td>ME 347 (4) (ME 236; ME 341; ME 302) Heat Transfer ME 350 (4)</td><td>ME 236 &amp; 302 &amp; 341)</td><td colspan="3">Life Science for Engineers &amp; Bioengineering Fundamentals BIO 213 (2) &amp; BMED 213 (2) (MATH 142. Recom: CHEM 124)</td></td<>	Manufacturing Processes: Materials Joining IME 142 (2) Manufacturing Processes Elective			Design ME 251 (2) (ME 130 or 228. Recom: IME 143) MATE & L MATE 210 (3)		& MATE 215 (1)	(CPE/CSC 101 or CSC :	ME 347 (4) (ME 236; ME 341; ME 302) Heat Transfer ME 350 (4)	ME 236 & 302 & 341)	Life Science for Engineers & Bioengineering Fundamentals BIO 213 (2) & BMED 213 (2) (MATH 142. Recom: CHEM 124)		
General Physics IA PHYS 132 (A) [Add! Area B)       General Physics IA PHYS 132 (A) (PYS 133 (A	MATH 141 (4) *	MATH 142 (4) (MATH 141 w/min C-)	MATH 143 (4) (MATH 142 w/min C-)	MATH 241 (4)	MATH 244 (4)	MATH 344 (4) (MATH 206 & 242; or 241 & 244)	ME 31	18 (4) 14. Recom: EE 201)  Intro to Syst ME 32	22 (4)	Elective (3-4)	(4)	
Gen. Chem. For Phys Sci & Engineering I CHEM 124 (4) *       Gen. Chem. For Phys Sci & Engineering I CHEM 124 (4) *       Gen. Chem. For Phys Sci & Engineering I CHEM 124 (4) *       Programming for Engin. Stud. CSC 231 (2) (MATH 142; PHYS 121, 131, or 141)       Intermediate Dynamics ME 326 (4) *       Intermediate Dynamics ME 326 (4) (ME 212; CPE/CSC 101 or CSC 231 or 234; MATH 2447)       Implementation of Mech Controls (ME 222; CPE/CSC 101 or CSC 231 or 234; MATH 2447)         Expository Writing ENGL 133 or 134 (4)**       (A2) (ME 322, ME 236)       GE (4) **       Students should complete the requirement after 90 earned units; students should complete the requirement before senior year)       GE (4) **       Students		PHYS 141 (4) *	PHYS 132 (4) (PHYS 131 or HNRS	PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142.	Materials I CE 204 (3) <sup>2</sup>	Materials II CE 207 (2) <sup>2</sup>	and Lab EE 201 (3) & EE 251 (1) (MATH 244,	Electronics Lab EE 321 (3) & EE 361 (1)		<b>ME 428 (2)<sup>1</sup></b> (ME 329. Coreq: ME	ME 429 (2) <sup>1</sup>	III <b>ME 430 (2)<sup>1</sup></b> (ME 429)
Expository Writing ENGL 133 or 134 (4)** [A2]         Can be taken anytime during Freshman Year         Oral Communication COMS 101 or 102 (4)** [A1]         Oral Communication COMS 101 or 102 (4)** [A1]         Can be taken anytime during Freshman Year         GE (4)         **         Graduation Writing Requirement GWR*         (Completion of GE A2 with a C- or better, Recond Completion of GE A1)         **         Can be taken anytime between Winter of Foshman and Winter of Sophamore Years		Phys Sci & Engineering I CHEM 124 (4) *		Phys Sci & Engineering II CHEM 125 (4)	Programming for Engin. Stud.           CSC 231 (2)           (MATH 142, PHYS 121, 131, or 141)           OR           C & Unix           CSC 234 (3)		ME 326 (4)		IATH 244†)	Implementation of Mech Controls ME 418 (4) (ME 322) OR Advanced Control Systems ME 419 (4)		
	Can be t Oral Commun Can be t GE (4)	aken anytime during Fres ication COMS 101 or aken anytime during Fres (Complet	hman Year 102 (4)** [A1] hman Year Technical Writing E ion of GE A2 with a C- or b	etter, Recom: Completion of			Rec: ECON 201 ** Graduati (Students can attempt to	o fulfill the requirement after 9	0 earned units; students		GE (4) ** GE (4)	GE (4)
						15-16	18	16	15	13-14	18	18

## Notes:

## MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

\* Refer to current catalog for prerequisites.

\*\* One course from each of the following GE areas must be completed: A1, A2, C1, C2, Lower-Division C Elective, Upper-Division C, D1, D2, Area D Elective, E. Upper-Division C should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, Upper-Division D, or E.

\*\*\* Refer to current catalog for course selection. ME 470, ME 471, ME 570 and ME 571 are variable topics courses and may or may not count as ME electives. Please contact instructor for additional information. ME 400 and ME 500 are independent study classes and may be acceptable for technical elective credit. A

course substitution form is required. Exceptions to this policy are possible through consultation with the department chair.

+ Course can be taken previously or concurrently.

^ Transfer students take ME 228, 263 & 264 in lieu of ME 128, 129, 130 and 163.

<sup>1</sup> ENGR 459, 460, and 461 (6 units) or ENGR 463, 464, and 465 (6) may substitute for ME 428, ME 429, and ME 430 (6).

<sup>2</sup> CE 208 may be taken in place of CE 204 and CE 207.



[GE Area]