## CAL POLY

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Updated 3/10/2020	EDEOUNAN		1	00000005					051102		
FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Computing CPE/CSC 123 (4) (Basic computer literacy)	Fundamentals of Computer Science CSC/CPE 101 (4) *	Data Structures CSC/CPE 202 (4) <sup>1</sup> (CPE/CSC 101 ; MATH 141 or 221. Min C-, or Instr.	Proj-Based Object- Oriented Programming & Design CSC/CPE 203 (4) (CSC/CPE 202 w/min C-,	Systems Programming CSC/CPE 357 (4) (CSC/CPE 102 & 103 or 202 and CSC/CPE 203 w/ min C- or Inst. consent; & GSC 225 or CPE/EE 229 or 233)		Professional Responsil CSC 300 (4) (CSC/CPE 357; Jr Standin Software	OR	Ethics, Science & Tech PHIL 323 * Programming	Software	Software	Senior Project:
		consent)	or Instr. consent)	C- or Instr. consent; & CSC	225 or CPE/EE 229 or 233)	Engineering I	Engineering II	Languages	Requirements Engineering	Construction	Software Deployment
		General Psychology PSY 201/202 (4)	Introduction to Computer Organization CSC 225 (4)	Discrete Structures CSC 348 (4)	Choose one: IME 314 (3)	CSC 308 (4) (CSC 141 or CSC 348)	CSC 309 (4) (CSC 308; CSC/CPE 357)	CSC 430 (4)	CSC/CPE 402 (4) (CSC 307 or 309)	CSC/CPE 405 (4) (CSC 305 & 402)	CSC/CPE 406 (4) (CSC 405)
		[E]	(CSC/CPE 202)	(CSC/CPE 102 & 103 or CSC/CPE 202 & CSC/CPE 203. Min C-, or Instr. consent)	OR IME 315 (3) *	Design & Analysis of Algorithms CSC 349 (4)	User-Centered Interface Design & Development	Approved Technical Elective	Approved Technical Elective		
Calculus I	Calculus II	Calculus III	Calculus IV	Linear Analysis I	Statistical Methods For Engineers	(CSC 141 or 348 & MATH 142; or CPE/CSC 102 & 103 or 202 & 203 w/ MATH 248)	CSC 484 (4) (CSC 307 or 308; Jr Standing)	(4) <sup>2</sup> ***	(4) <sup>2</sup> ***		
MATH 141 (4) * [B4]	MATH 142 (4) (MATH 141 w/min C-) [B4]	MATH 143 (4) (MATH 142 w/min C-) [Area B Elective]	MATH 241 (4) (MATH 143)	MATH 244 (4) (MATH 143)	STAT 312 (4) (MATH 142) [Upper-Division B]	Introduction to Database Systems CSC 365 (4)	Individual Software Design & Development		Approved Technical Elective (4) <sup>2</sup>	Approved Technical Elective (4) <sup>2</sup>	
Expository Writing ENGL 133/134 (4)** [A2]			Physical Sc PHYS 141 (4)*	ience Support Elective: Physics IA, II, & III PHYS 132 (4)*	s (12 units) PHYS 133 (4)* [B1 & B3]	(CSC 141; or CSC 348; or CSC/CPE 102 & 103 & MATH 248; or CSC/CPE 202 & 203 & MATH 248)	CSC 305 (4) (CSC/CPE 357)		***	***	
	Oral Communication COMS 101/102 (4)** [A1]		CHEM 124 (4)*	OR Chemistry I, II, & III CHEM 125 (4)*	CHEM 126 (4)* [B1 & B3]	Choose one: Teamwork PSY 350 (4) (GE D4)			Math Elective (Choose one):		Life Science Support Elective (4-5) <sup>3</sup>
Technical Writing for Engineers ENCL 149 (4) [A3] (Completion of GE A2 with a C or better. Recommended: Completion of GE. Can be taken anytime between Writer of Freshman and Writer of Sophomore 1						OR Small Grp Comm COMS 217 (4) (COMS 101 or 102)			MATH 248, 304, 335, 336, or 451 (4) *		[B2]
GE (4) **				(4) **		GE (4) **	GE (4) **		GE (4) **	GE (4) **	
						Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)					
16	16	16	16	16	15	16	16	16	16	12	12-13
									TOTAL:	183-184	

## 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-Divison C Elective, Upper-Division C, D1, D2, Area D Elective. 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, or Upper-Division D.

\*\*\* Refer to current catalog for course selection.

† Course can be taken previously or concurrently.

<sup>1</sup> May substitute CSC/CPE 108.

<sup>2</sup> Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals. A total of 20 technical

elective units selected from upper-division and graduate CSC and CPE courses open to those in the major and not otherwise required by the major. An additional 4 units of CPE/CSC technical electives

may substitute for CSC 123 in major requirements

<sup>3</sup> Select one Life Science Support Elective from the following: BIO 111, BIO 161, BIO 213 & BMED 213, BOT 121, MCRO 221, or MCRO 224.

## Legend: Course Title Course # (Units)

(Prerequisite) Support (59-60) [GE Area] General Ed. (36)

Major (88)