Effective Fall 2018 Catalog and Beyond

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). There is no way to list all possible overlaps, so please complete this form with a professional advisor. We can help you identify the best course of action.

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Total Unit Requiremen	ts:			Hext bein			L
# Total units required for a CPE BS 124 units				1			-
# Total major-related units 97 units			2				
# Total units outside of major		27 units		2			
American Institutions:				J			•
# US History	Recommen	d HIST 17A or 17B		4			•
# US Constitution	Re	commend POLS 1		5.			
# CA State & Local G	Government <i>Re</i>	commend POLS 1					
Race & Ethnicity in Ame	erican Society (F	R+E)		6			,
English Composition:						Total Units	
# Written Communication* ENGL 5/5M or 11/11M				To Do:			
# Second Semester	Composition*	ENGL 20/20M					
Graduation Writing Ass	sessment Requi	irement (GWAR):					
# Writing Placemen	t for Juniors(WI	PJ) or ENGL 109W					-
# Writing Intensive	(WI) Course*						
Foreign Language (FL)		EXEMPT	V				
General Education for	Engineering Iter	ms with * require C	- or b	etter			
A. Basic Subjects (6 units)	Suggestion or Rec	quire	ment	Course	Semester	l
	ala		-				7

A. Basic Subjects (6 units)	Suggestion or Requirement	Course	Semester	Grade	
A1. Oral Communication*	COMS 4 or COMS 5				
A2. Written Communication*	ENGL 5/5M or ENGL 11/11M				
B. Physical Universe & Its Life Forms (12 units)					
B1. Physical Science & B3. Lab*	Met by major: PHYS 11A				
B2. Life Forms*	Met by major: ENVS 10				
B4. Quantitative Reasoning*	Met by major: MATH 30				
B5. Upper Division GE*	Met by major: CPE 190/191				
C. Arts & Humanities (12 units)					
C1. Arts					
C2. Humanities					
Second Semester Composition*	ENGL 20/20M				
Upper Division GE*	Recommend: Writing Intensive				
D. The Individual & Society (12 units)					
U.S. History	Recommend: HIST 17A or 17B				
U.S. Constit., CA State, & Local Govt	Recommend: POLS 1				
Any Area D Course					
Upper Division GE*	Met by major: ENGR 140 & CPE 190/191				
E. Understanding Personal Development (3 units)					
3 units of lower division courses*	Met by major: ENGR 1 & CPE 64:				

Computer Engineering Course Check List Fall 2020-Spring 2021 Catalog **Disclaimer**

The below list is not to be used to plan out your courses. It is only used as a check list to reflect your progress within your program. For course planning assistance, please speak with an academic advisor or faculty member to assist you.

All the courses on this list must be passed with a C- or better.

Lower Division Red	quirements					
Code	Title	Pre-req	Units			
CPE 64	Introduced to Logic Design	CSC 15	4			
CSC 15	Programming Concepts & Methodology I	CSC 10A or programming experience	3			
CSC 20	Programming Concepts & Methodology II	CSC 15	3			
CSC 28	Discrete Structures for Computer Science	MATH 29 & CSC 20 (concurrently)	3			
CSC 35	Introduction to Computer Architecture	CSC 15	3			
CSC 60	Introduction to Systems Programming in UNIX	CSC 20 & CSC 35	3			
ENGR 1	Introduction to Engineering	Engineering Major or Instructor Permission	1			
ENGR 17	Introductory Circuit Analysis	PHYS 11C & Math 45; one can be concurrent	3			
ENVS 10	Introduction to Environmental Science		3			
MATH 30	Calculus I	ALEKS PPL Score of 76 or high, or MATH 29	4			
MATH 31	Calculus II	MATH 30	4			
MATH 45	Differential Equations	MATH 31	3			
PHYS 11A	Mechanics	MATH 30 & MATH 31 (concurrently)	4			
PHYS 11C	Electricity and Magnetism	PHYS 11A & MATH 31	4			
Upper Division Requirements						
CPE/CSC 138	Computer Networks and Internets	CSC 35, CSC 60, & CSC 130	3			
CPE/CSC 142	Advanced Computer Organization	CPE 166 & CPE 185	3			
CPE 151	CMOS and VLSI	CPE 64 & EEE 108	3			
CPE/CSC 159	Operating Systems Pragmatics	CSC 139	3			
CPE 166	Advanced Logic Design	CPE 64 & ENGR 17	4			
CPE 185	Computer Interfacing	CPE 64, CSC 35 & CSC 60	4			
CPE 186	Computer Hardware System Design	CPE 185	3			
CPE 190	Senior Design Project I	CPE 142, CPE 166, CPE 186, CPE 187 , EEE 108	2			
CPE 191	Senior Design Project II	CPE 190 & GWAR	2			
CSC 130	Data Structure and Algorithm Analysis	CSC 20, CSC 28 (concurrently)	3			
CSC 139	Operating Systems Principles	CSC 60, CSC 130, & CPE 185	3			
EEE 108	Electronics I	EEE 117 & EEE108L (Concurrently)	3			
EEE 108L	Electronics I Laboratory	EEE 117, EEE 117L, & EEE 108 (concurrently)	1			
EEE 117	Network Analysis	ENGR 17, MATH 45, & PHYS 11C	3			
EEE 117L	Network Analysis Laboratory	EEE 117 (concurrently)	1			
EEE 180	Signals and Systems	EEE 117 (concurrently)	3			
ENGR 120	Probability and Random Signals	EEE 180 (concurrently)	3			
ENGR 140	Engineering Economics	ENGR 17	2			
Technical	Select one of the following:	Please see a Faculty Advisor.	3	1		
Elective	CPE 144, CPE 153, CSC 131, CSC 134, CSC 151,					
	CSC 152, CSC 152, CSC 154, CSC 155, EEE 120,					
	EEE 122, EEE181, EEE 187					
Total Units: 97						

Any Questions?

Please visit the ECS Student Success Center – Advising, Counseling, and Tutoring Center in Santa Clara 1213 Or the Computer Engineering Department in Riverside 3022

Hub for online student resources including major roadmaps, catalogs, Academic Advising Worksheets, Placement exams, and online resources: <u>https://www.csus.edu/college/engineering-computer-science/student-success/student-resources.html</u>