CAL STATE EAST BAY
SCHOOL OF ENGINEERING

School of Engineering
California State University, East Bay
SF Building, Room 570
P: 510.885.2654 | F: 510.885.2678
www.csueastbay.edu/engineering/

BS Computer Engineering Advising Form

Student Name: _____ Local/Cell Phone Number: _____

Horizon Email: _____ Net ID: _____

Advisor: _____ Class: ☐ Freshman ☐ Sophomore ☐ Junior ☐ Senior

COURSES YOU ARE CURRENTLY ENROLLED IN

Dept & Course #	Course Title

For information on your courses, permission number, ect.

visit www.csueastbay.edu/engineering/

Is your WST requirement fulfilled? Yes ☐ No ☐

Check your catalog on http://catalog.csueastbay.edu/

Catalog Year: _____

PLANNED ENROLLMENT FOR NEXT SEMESTER

Dept & Course #/ Section	Course Title	Units	List All Co/ Prerequisites	Co/Prereq. Met? Yes	No	Permission needed? Yes	No

Total Units: _____ Over 18 units is an overload. Are you overloaded? Yes ☐ No ☐

Notes: _____

2023-2024 Catalog for Computer Engineering

Course Number		Title	Prerequisite	✔
Semester	**Quarter**	**Lower Division Core Courses 50 units**		
CS 101	2360, 2370	Computer Science I	Mathematics/ QR Placement Category I or II	
MATH 130	1304, 1305	Calculus I	C- or better in MATH 120 OR MATH 125	
PHYS 135	1001, 1002	Physics for Scientists and Engineers I	Co-req MATH 130	
MATH 131	1305, 2304	Calculus II	C- or better in MATH 130	
PHYS 136	1002, 1003	Physics for Scientists and Engineers II	MATH 130 and PHYS 135	
ENGR 200	1011	Introduction to Engineering and Design		
CS 201	2360, 2370	Intro to CS II	C- or better in CS 101	
CS 211		Discrete Structures	C- or better in MATH 130	
MATH 230	2304, 2305	Calculus III	C- or better in MATH 131	
CHEM 110	1101	General Chemistry for Engineering	Co-req MATH 130, MATH 125, or MATH 130	
CMPE 221	2430	Assembly Language and Logic Design	C- or better in CS 100 or CS 101	
ENGR 230	2010	Electric Circuits I	PHYS 136. Co-req MATH 215	
MATH 215		Introduction to Linear Algebra	MATH 130. Co-req MATH 131.	
MATH 285		Introduction to Differential Equations	C- or better in MATH 131	
ENGR 220	INDE 3101	Statics	PHYS 135	
Upper Division Core Courses 32 Units				
CS 301	3240	Data Structures and Algorithms	CS 201 & CS 211	
CMPE 323		Digital Design and Computer Architecture	C- or better in CS 211 and CMPE 221	
CMPE 330	3010	Electric Circuits II	ENGR 230. Co-req MATH 285. Co-req ENGR 200	
INDE 330	3610	Engineering Statistics and Probability	MATH 130	
CMPE 344	3434	Microprocessor Laboratory	CS 201	
CMPE 370	3752	Digital Signal Processing I	CMPE 330	
CMPE 421	4435	Computer Architecture II	CMPE 323	
CMPE 492	4610	Senior Design I	CMPE 330 & CMPE 344	
CMPE 480	4432	V:SI Circuit Design/Layout	CHEM 110 & CMPE 323, ENGR 230	
CMPE 493	4620	Senior Capstone: Senior Design II	Co-req CMPE 480 & CMPE 492	

		Elective Courses - Select 2 Classes for 6 Units, 3 units must be from CMPE. **The remaining 3 units may be from CS, CMPE or ENGR**		
CMPE 427		Introduction to Machine Learning	CS 301	
CMPE 430		Analog Design	CMPE 330	
CMPE 470		Digital Signal Processing II	CMPE 370	
CS 401	4310	Software Engineering	C- or better in CS 301	
CS 421	4560	Operating Systems	C- or better in CS 301	
CS 441	3590, 4590	Computer Networks	CS 301	
CS 455	4840	Computer Graphics	C- or better in CS 301	
ENGR 310		CAD/ CAM Graphics	ENGR 220	

Or another 400/600 CMPE or CS or MATH level course with **department approval**