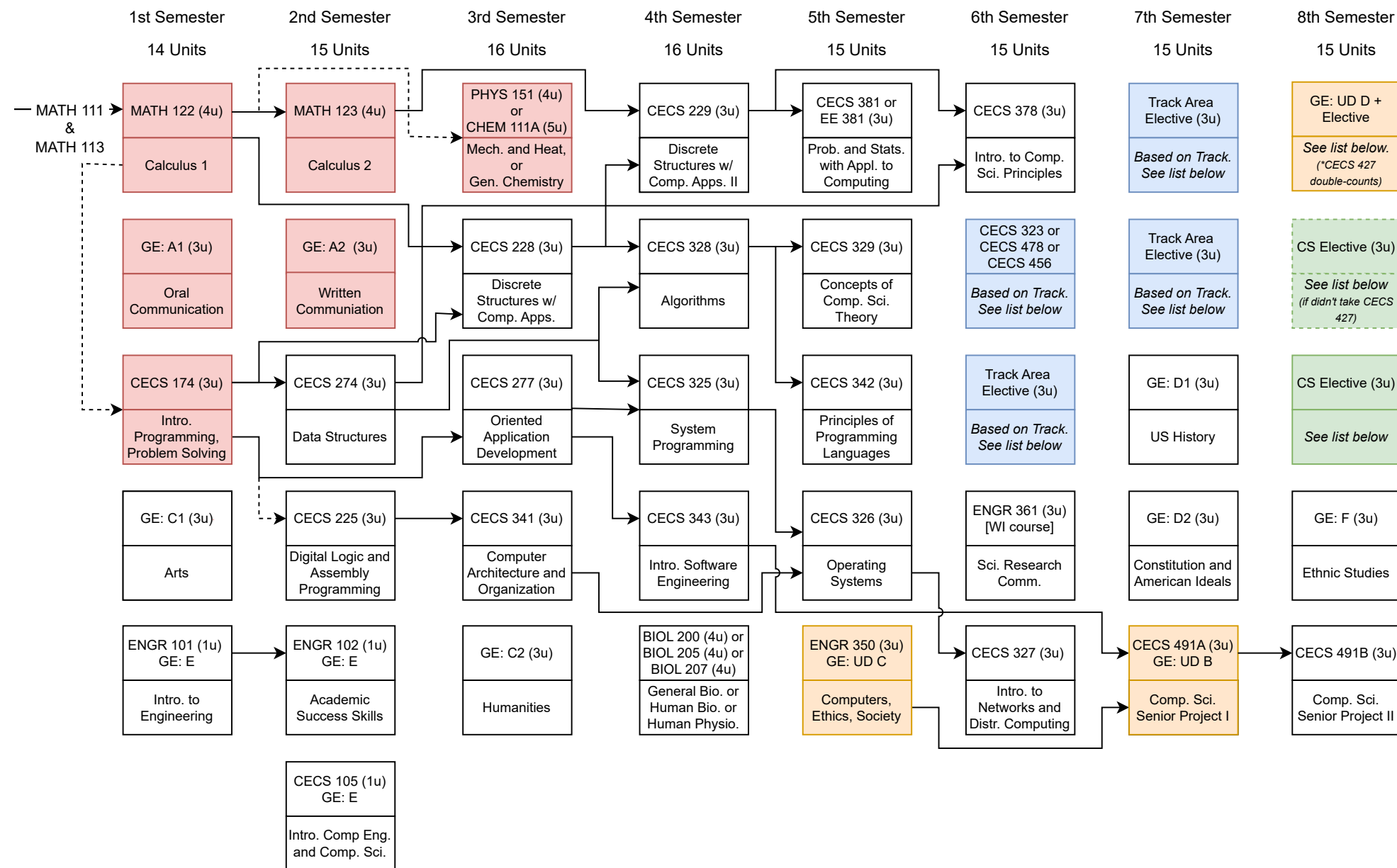


This sheet is **UNOFFICIAL** and subject to change without notice. Your requirements may differ from these. For your exact requirements, consult your Academic Requirements Report. This sample flowcharts shows the order courses are recommended to be completed for a Four Year Plan - 120 Units Required.



Legend:

- u = units
- MSDR
- Major and UD GE Double-Count
- CS Elective
- Track Elective
- Prerequisite
- Corequisite

To Fully Declare:
Complete MATH 122,
MATH 123, CECS 174,
PHYS 151 or CHEM 111A,
GE A1 & A2

GWAR Requirement:
Complete GPE (Before 46-
60u) + WI course

Contact Information
CECS Office: ECS 552 | Phone: (562) 985-4285

Pre-Major Advisor:
ESSC Advising
Office: EN2-304A
Email: COE-Advising@csulb.edu

Computer Science Advisor
Melisa Velazquez
Office: EN2-304A
Email: Melisa.Velazquez@csulb.edu

TRACK ELECTIVES (12u)
Select 12u from one of the following three options:

Track 1: Software Dev.
CECS 323*, 443, 448, 453, 470, 475

Track 2: Cybersecurity
CECS 478*, 303, 456, 457, 474, IS 360

Track 3: Machine Learning/AI
CECS 456*, 427, 429, 450, 451, 457

**Elective is required for Track. Track and CS electives cannot double-count.*

CS ELECTIVES (6u):

CECS 303, 323, 406, 419, 427, 428, 429, 443, 444, 448, 449, 450, 451, 453, 455, 456, 457, 461, 470, 474, 475, 478, 480, 495, 497, MATH 323

2023-2024 (only) GE Pattern Worksheet: Computer Science

Last Name	First Name	CSULB ID#	Date
General Education Categories <i>Lower Division (100-200 level courses) Upper Division (300-400 level courses)</i>		Course	Comp/IP
Area A: English, Communications & Critical Thinking - 9 units			
A1) Oral Communication/Speech - 3.0 units <u>Foundation</u>			
A2) Written Communication - 3.0 units <u>Foundation</u>			
A3) Critical Thinking - 3.0 units <u>Foundation</u>		Waived for Engineering majors	
Area B: Life Sciences, Physical Sciences & Math/Quantitative Reasoning – 12-13 units			
<i>Life Sciences & Physical Sciences with Lab – 9.0 units</i>			
B1) Physical Science W/Lab– 3.0 units		PHYS 151/ CHEM 111A	Major
B2) Life Science – 3.0 units		BIOL 200/ 205/ 207	Major
B3) Laboratory Experience Verification		PHYS 151/ CHEM 111A	Major
<i>Math/Quantitative Reasoning – 3.0 units</i>			
B4) Mathematics – 3.0 units <u>Foundation</u>		MATH 122	Major
Upper Division B (Scientific Inquiry/Quantitative Reasoning) - 3.0 units		CECS 491A	Major
Area C: Arts & Humanities – 9 units (6 units Lower Division and 3 units Upper Division)			
C1) Arts – 3.0 units			
C2) Humanities – 3.0 units			
C3) Additional Arts or Humanities – 3.0 units		Waived for Computer Engineering majors	
Upper Division C (Arts and Humanities) - 3.0 units required		ENGR 350	Major
Area D: Social Science & Citizenship – 9.0 units (6 units of Lower Division, 3 units of Upper Division)			
<i>U.S. History and Political Science Required</i>			
D1) U.S. History – 3.0 units			
D2) U.S Constitution & American Ideals – 3.0 units			
D3) Social Sciences & Citizenship – 3.0 units		Not recommended for Engineering majors	
Upper Division D (Social Science) - 3.0 units required			CECS 427 (Optional Elective)
Area E: Lifelong Learning & Self Development – 3.0 units (Lower Division only)			
E1) Intro to the Engineering Profession (ENGR 101) – 1.0 unit		ENGR 101	Major
E2) Academic Success Skills (ENGR 102) – 1.0 unit		ENGR 102	Major
E3) Intro to major-specific orientation – 1.0 unit		CECS 105	Major
Area F: Ethnic Studies - 3.0 units (Lower Division only)			
F1) Ethnic Studies – 3.0 units			
Graduation Writing Assessment Requirement (GWAR): Writing Intensive (WI) Course- 3.0 units <i>*(Can be double-counted with Upper Division C)</i>		ENGR 361	Major

I recognize that certain aspects of this GE Pattern are still being developed and I must consult the current CSULB GE website for approved GE courses. www.csulb.edu/ge. I understand that this form is for general planning purposes only, is considered unofficial, subject to change, and is based on the 2023-2024 CSULB Catalog.

Student Signature

Date

Advisor Signature

Date