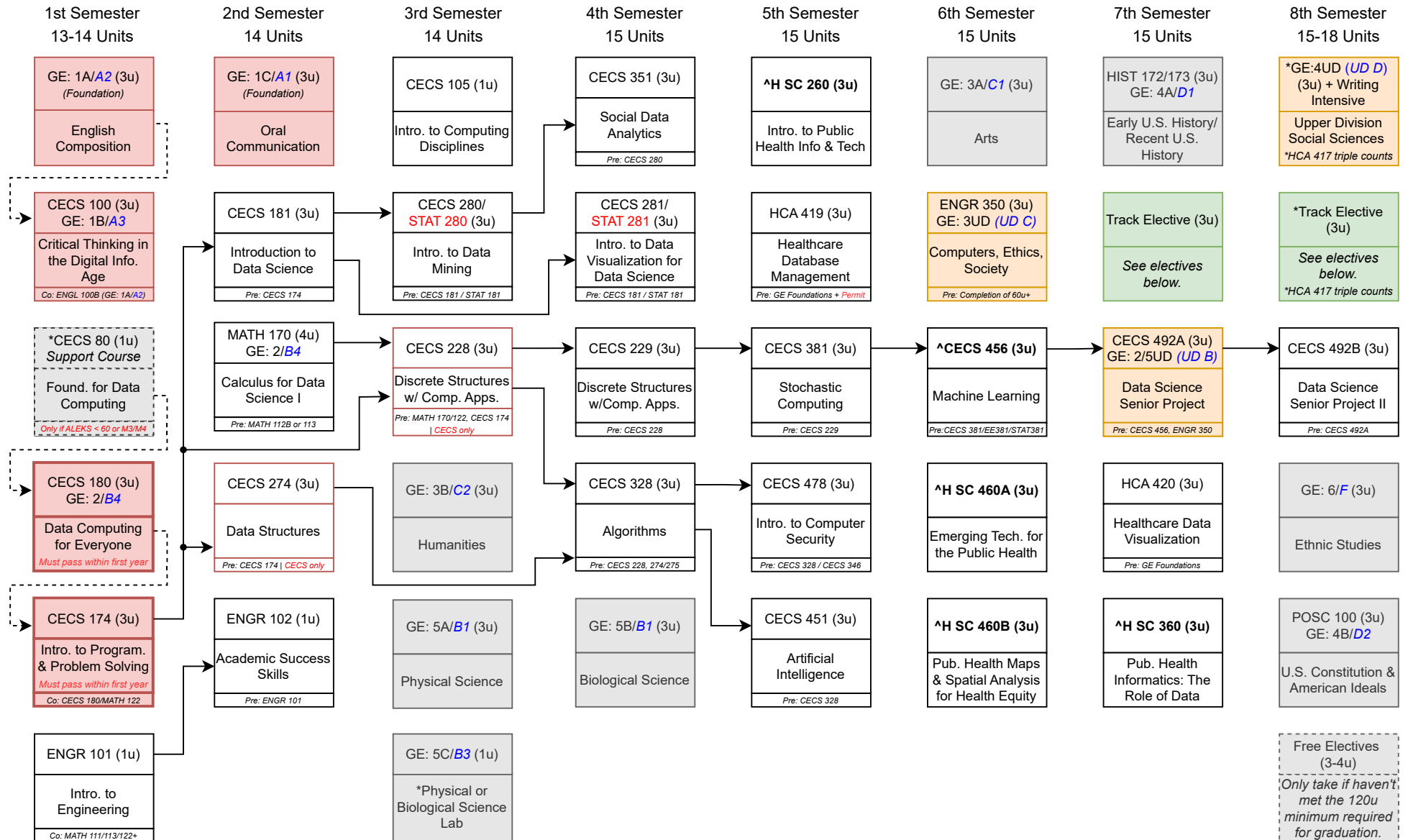




This flowchart is **UNOFFICIAL**. For official degree requirements, consult your catalog or Academic Requirements Report (ARR).



Legend:

- General Education
- Major Declaration Req. (MSDR)
- Major and UD GE Double-Count
- Track Elective
- Pre/Prerequisite
- Co/Corequisite

Contact Information

CECS Office: ECS 552 | Phone: 562-985-2910
Health Science Office: HHS2 115 | Phone: 562-985-4057

Pre-Major Advisor:
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Health Analytics Faculty Advisor:
Dr. Brian Kwan
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To Fully Declare in COE:
Complete **CECS 180, CECS 174, GE 1A, 1B, and 1C** with **≥ 2.5 GPA before 60u.**

To Continue in COE:
Once declared, maintain **≥ 2.0 GPA** and make satisfactory degree progress.

HEALTH ANALYTICS ELECTIVES (6u)
Select two electives (6u) from the following:

HCA 300, HCA 416, **HCA 417***, HCA 428, HCA 450
H SC 400, H SC 403, H SC 420

*HCA 417 triple counts for GE: 4UD and Writing Intensive
Consult catalog.csulb.edu for prerequisites.

^ Courses also apply toward the Public Health Informatics and Technology (PHIT) certificate. Contact the Health Analytics Faculty Advisor for details.

2026-2027 (only) GE Pattern Worksheet: Applied Data Science: Health Analytics

LOWER-DIVISION (100 and 200 level courses) – 34 units required

General Education Category		Course	Comp/IP	Double-Count
Area 1: English Communication – 9 units				
1A/ A2)	English Composition – 3 units <u>Foundation</u>			
1B/ A3)	Critical Thinking – 3 units <u>Foundation</u>	CECS 100		Major
1C/ A1)	Oral Communication – 3 units <u>Foundation</u>			
Area 2: Mathematical Concepts and Quantitative Reasoning – 3 units				
2/ B4)	Mathematics – 3 units Foundation	CECS 180		Major
Area 3: Arts and Humanities – 3 units				
3A/ C1)	Arts – 3.0 units			
3B/ C2)	Humanities – 3.0 units			
Area 4: Social and Behavioral Sciences – 6 units				
4A/ D1)	U.S. History – 3 units	HIST 172/HIST 173		
4B/ D2)	U.S. Constitution & American Ideals – 3 units	POSC 100		
Area 5: Physical and Biological Sciences – 7 units				
5A/ B1)	Physical Science – 3 units			
5B/ B2)	Biological Science – 3 units			
5C/ B3)	Laboratory – 1 unit			
Area 6: Ethnic Studies – 3 units				
6/ F)	Ethnic Studies – 3 units			

UPPER-DIVISION (300 and 400 level courses) – 9 units required

General Education Category		Course	Comp/IP	Double-Count
2 UD: Math Concepts/Quantitative Reasoning or 5 UD: Science (UD B) – 3 units		CECS 492A		Major
3 UD/ UD C : Arts or Humanities – 3 units		ENGR 350		Major
4 UD/ UD D : Social and Behavioral Sciences – 3 units*				HCA 417 (Optional Elective)
Graduation Writing Assessment Requirement (GWAR) – 3 units required				
Writing Intensive (WI) Course – 3 units				HCA 417 (Optional Elective)

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. I understand that this form is for general planning purposes only, is considered unofficial, subject to change, and is based on the 2026-2027 CSULB Catalog.

Student Name

Student ID

Student Signature

Date