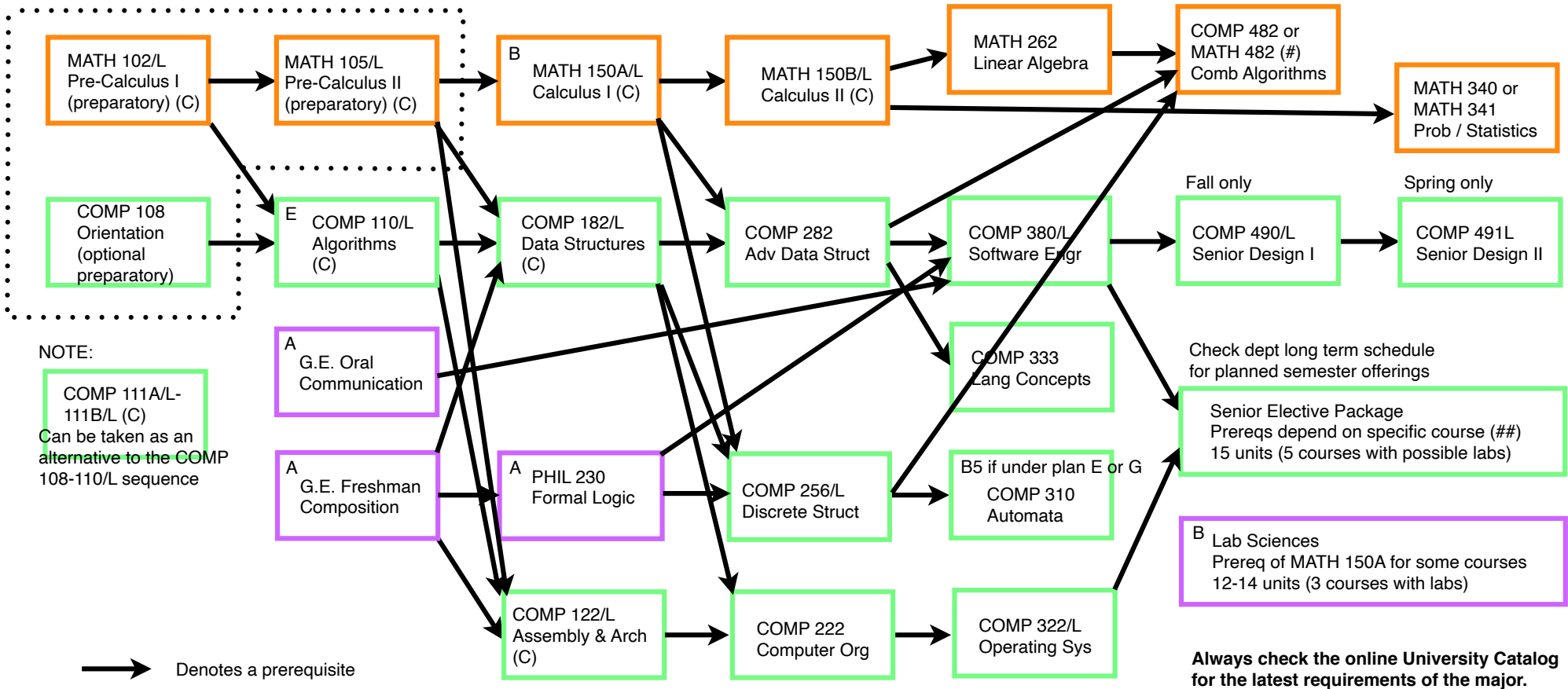


CSU Northridge, Computer Science Department

COMPUTER SCIENCE MAJOR

Fall 2022 - Spring 2023 Catalog Requirements



Computer Science B.S. degree (120 units)

The required units are divided into:

Computer Science Core	
Lower Division.....	20 units
Upper Division.....	21 units
Mathematics.....	16 units
Formal Logic.....	3 units
Lab Sciences.....	12-14 units
Senior Electives in Computer Science.....	15 units
General Education/U.S. History/Government....	30 units
Free Elective Units.....	1-3 units

Lab Science Requirements (12-14 units)

Select one of the following **two semester lab science course sequences** 8-10 units

Physics 220A, 220AL, 220B, 220BL
Chemistry 101, 101L, 102, 102L (prerequisite of CHEM 100 might be required)
Biology 106, 106L, 107, 107L

Select an additional **third lab science course** from a field of study different from the one selected above..... 4-5 units

Biology 106, 106L	Geology 101, 102 (lab)
Chemistry 101, 101L	Geology 110, 112 (lab)
Geography 101, 102 (lab)	Physics 220A, 220AL
Geography 103, 105 (lab)	

Senior Electives in Computer Science (15 units)

Areas of emphasis:

Artificial Intelligence	Data Science
Computer Graphics/Multimedia	Object Oriented Programming/Design
Computer Networks and Security	Operating Systems
Embedded Applications	Software Engineering
Human/Computer Interface	Web Engineering

Computer Science majors are required to take 15 units of senior electives. A student may wish to discuss their career goals with an advisor prior to selecting their senior electives. The advisor will suggest appropriate sequences of courses for the student to select from. All 400 and 500 level COMP courses (with the exception of 450, 482, 490, 491, 494, 496ALG and 499) and MATH 481A are pre-approved for inclusion as Senior Electives. Requests for inclusion of a 400 or 500 level course as a senior elective that does not meet the requirements stated above must be approved by the student's advisor and the Department Chair prior to enrollment in the course.

A First Year Sequence for Freshmen Needing Preparatory Courses (Taken as part of the preparatory sequence appearing on the other page. The preparatory sequence may extend the four-year program by a year. Check with your academic advisor regarding the proper course sequence.)

Semester 1:	Semester 2:
MATH 102	MATH 105
Stretch English	Stretch English or G.E. Fresh. Comp.
G.E. course	COMP 108 or COMP 111A/L
G.E. course	G.E. course

Grade and Degree Requirements in the Major

(Current catalog year course prerequisite requirements apply to all major course work not yet completed; major degree requirements are determined by the catalog year of the major; always apply the higher of the two standards.)

A. Transfer courses

"C" or better for all transfer courses

B. Courses taken at CSUN - rules depend on the academic year of the University Catalog of your major [2021-2022 means from August 2021 through July 2022]; consult with the Dept Office if your catalog year is not listed; although every attempt has been made to accurately represent the following information, your responsibility is to follow the rules that appear in the appropriate University Catalog for the year of your major appearing in your DPR report.

- 2010-2015 Catalog years:** specified "C" or better in each of the courses required by the lower division core (COMP 110/L, 122/L, 182/L, PHIL 230, MATH 150A, G.E. A.1) and "C-" or better in all remaining courses required by the major ("C" or better in select prerequisite math courses)
- 2015-2016 Catalog year:** MATH 340 added as alternative to MATH 341; COMP 380/L prerequisites changed to COMP 282, PHIL 230 and GE oral comm; COMP 333 prerequisites changed to COMP 282
- 2016-2020 Catalog years:** COMP 482 added as alternative to MATH 482; changes to prerequisites for lower division MATH courses.
- 2020-2022 Catalog years:** COMP 111A/L-111B/L (stretch COMP 110/L) can be taken in place of COMP 108 - COMP 110/L sequence

C. Overall GPA requirements (to stay in good academic standing and for graduate)

- 2.0 or higher overall GPA for all courses taken at CSUN
- 2.0 or higher overall GPA for all courses taken (combination of CSUN & transfer)
- 2.0 or higher overall GPA for all upper division courses required by the major