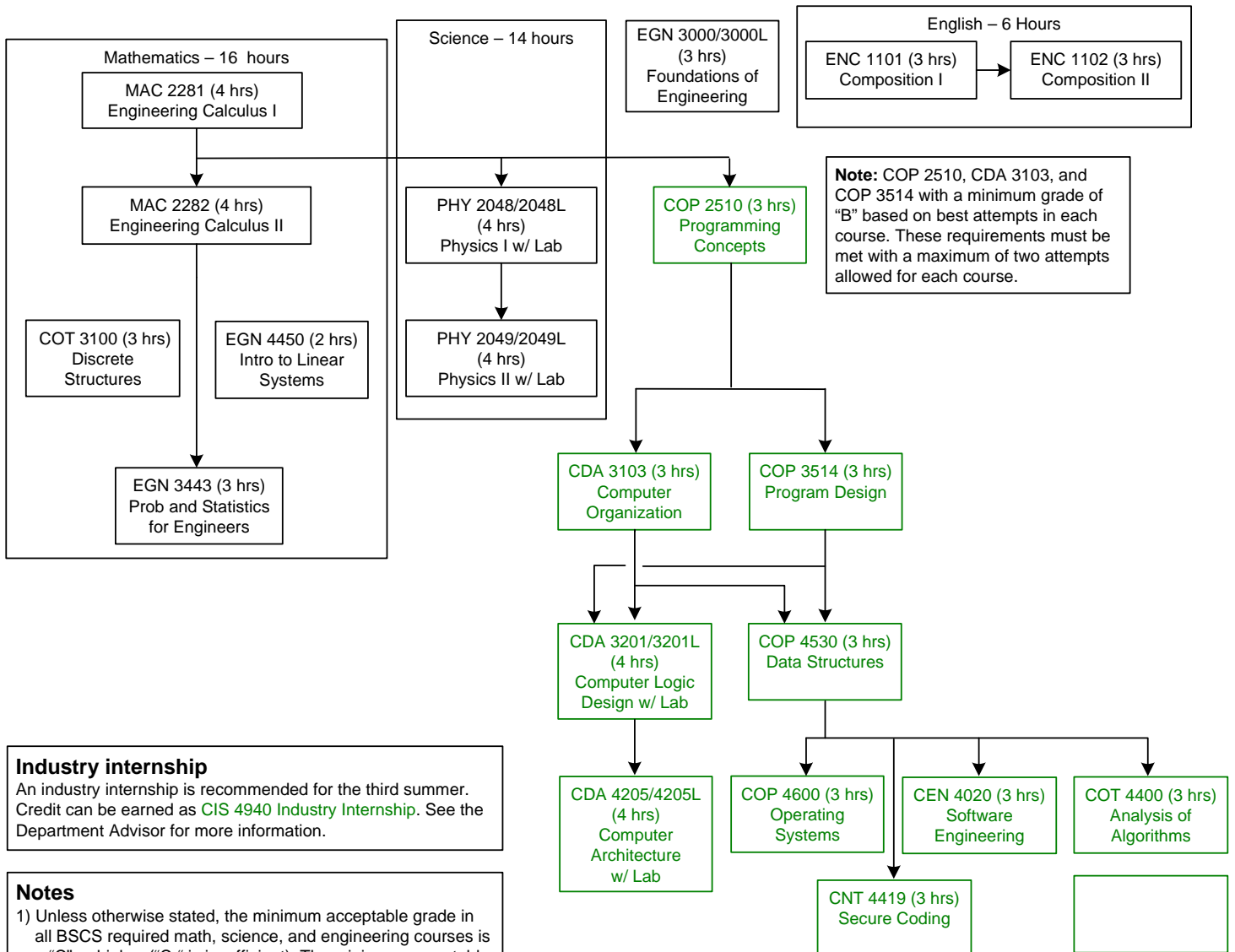# Computer Science Program
# Catalog 2023-24 – 120 Hours

**NOTE:** This flowchart is provided as a guide; the catalog is the only definitive source of requirements.

## Mathematics – 16 hours

MAC 2281 (4 hrs)
Engineering Calculus I

MAC 2282 (4 hrs)
Engineering Calculus II

COT 3100 (3 hrs)
Discrete Structures

EGN 4450 (2 hrs)
Intro to Linear Systems

EGN 3443 (3 hrs)
Prob and Statistics for Engineers

## Science – 14 hours

PHY 2048/2048L (4 hrs)
Physics I w/ Lab

PHY 2049/2049L (4 hrs)
Physics II w/ Lab

## EGN 3000/3000L (3 hrs)
Foundations of Engineering

## English – 6 Hours

ENC 1101 (3 hrs)
Composition I

ENC 1102 (3 hrs)
Composition II

COP 2510 (3 hrs)
Programming Concepts

**Note:** COP 2510, CDA 3103, and COP 3514 with a minimum grade of "B" based on best attempts in each course. These requirements must be met with a maximum of two attempts allowed for each course.

CDA 3103 (3 hrs)
Computer Organization

COP 3514 (3 hrs)
Program Design

CDA 3201/3201L (4 hrs)
Computer Logic Design w/ Lab

COP 4530 (3 hrs)
Data Structures

CDA 4205/4205L (4 hrs)
Computer Architecture w/ Lab

COP 4600 (3 hrs)
Operating Systems

CEN 4020 (3 hrs)
Software Engineering

COT 4400 (3 hrs)
Analysis of Algorithms

CNT 4419 (3 hrs)
Secure Coding

## Industry internship

An industry internship is recommended for the third summer. Credit can be earned as CIS 4940 Industry Internship. See the Department Advisor for more information.

## Notes

1) Unless otherwise stated, the minimum acceptable grade in all BSCS required math, science, and engineering courses is a "C" or higher ("C-" is insufficient). The minimum acceptable grade in specialization courses is a "C-", except as stated in the progression and continuation requirements in the catalog.
2) COP 4530 is the minimum prereq for most software electives. CDA 3201 with lab is the minimum prereq for most hardware electives. COP 4530 and COT 3100 are the minimum prereqs for most theory electives.
3) The maximum number of credit hours for CIS 4900, CIS 4915, and CIS 4940 in any combination is 6 credit hours.
4) Students may be required to complete both an approved civic literacy course and a passing score on a designated civic literacy assessment before graduation from the USF. Consult the catalog.