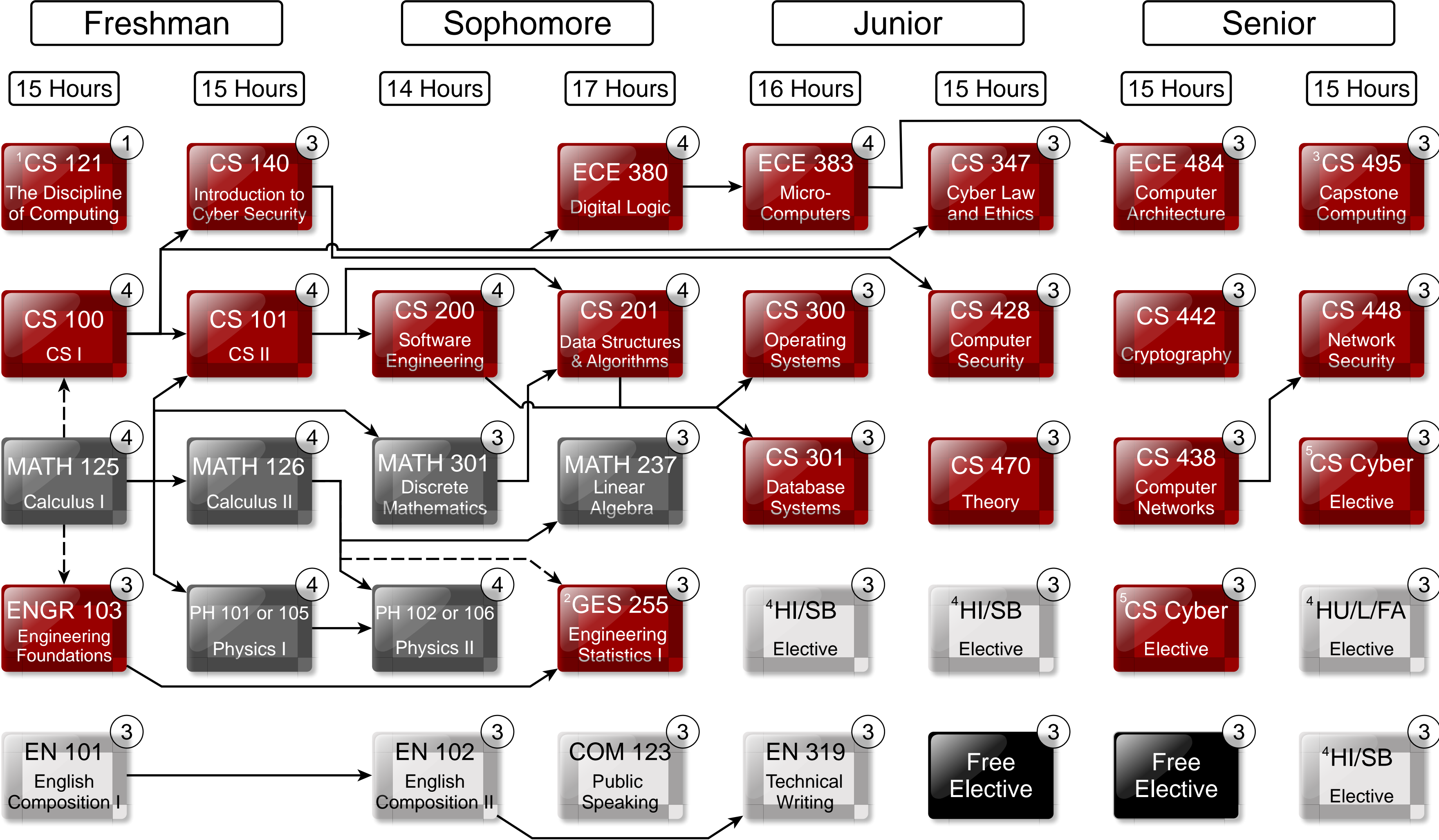# 2024-25 Cyber Security Curriculum

NOTE: This curriculum is effective for all students enrolling in CS 100 in Fall 2024 or later.

———————→ = course prerequisites.   - - - - -→ = prerequisites with concurrency.

Freshman		Sophomore		Junior		Senior	
15 Hours	15 Hours	14 Hours	17 Hours	16 Hours	15 Hours	15 Hours	15 Hours

[1]CS 121 [1] The Discipline of Computing	CS 140 [3] Introduction to Cyber Security		ECE 380 [4] Digital Logic	ECE 383 [4] Micro-Computers	CS 347 [3] Cyber Law and Ethics	ECE 484 [3] Computer Architecture	[3]CS 495 [3] Capstone Computing
CS 100 [4] CS I	CS 101 [4] CS II	CS 200 [4] Software Engineering	CS 201 [4] Data Structures & Algorithms	CS 300 [3] Operating Systems	CS 428 [3] Computer Security	CS 442 [3] Cryptography	CS 448 [3] Network Security
MATH 125 [4] Calculus I	MATH 126 [4] Calculus II	MATH 301 [3] Discrete Mathematics	MATH 237 [3] Linear Algebra	CS 301 [3] Database Systems	CS 470 [3] Theory	CS 438 [3] Computer Networks	[5]CS Cyber [3] Elective
ENGR 103 [3] Engineering Foundations	PH 101 or 105 [4] Physics I	PH 102 or 106 [4] Physics II	[2]GES 255 [3] Engineering Statistics I	[4]HI/SB [3] Elective	[4]HI/SB [3] Elective	[5]CS Cyber [3] Elective	[4]HU/L/FA [3] Elective
EN 101 [3] English Composition I	EN 102 [3] English Composition II	COM 123 [3] Public Speaking	EN 319 [3] Technical Writing	Free Elective [3]	Free Elective [3]		[4]HI/SB [3] Elective

ALL 400-level CS courses have CS 300, CS 301, and ECE 383 as their prerequisites.

[1]CS 121 is recommended, it may be substituted with ENGR 111 or any other engineering introductory course.

[2] MATH 355 can be substituted for GES 255.

[3]CS 495 prerequisites: (CS 403 or CS 470) and (CS 4xx excluding CS 403 and CS 470)

[4]A sequence of two of the HU/L/FA or HI/SB electives courses must be completed from the same department.

[5]All CS Cyber Electives have CS 428 as a prerequisite.

122 Total Hours