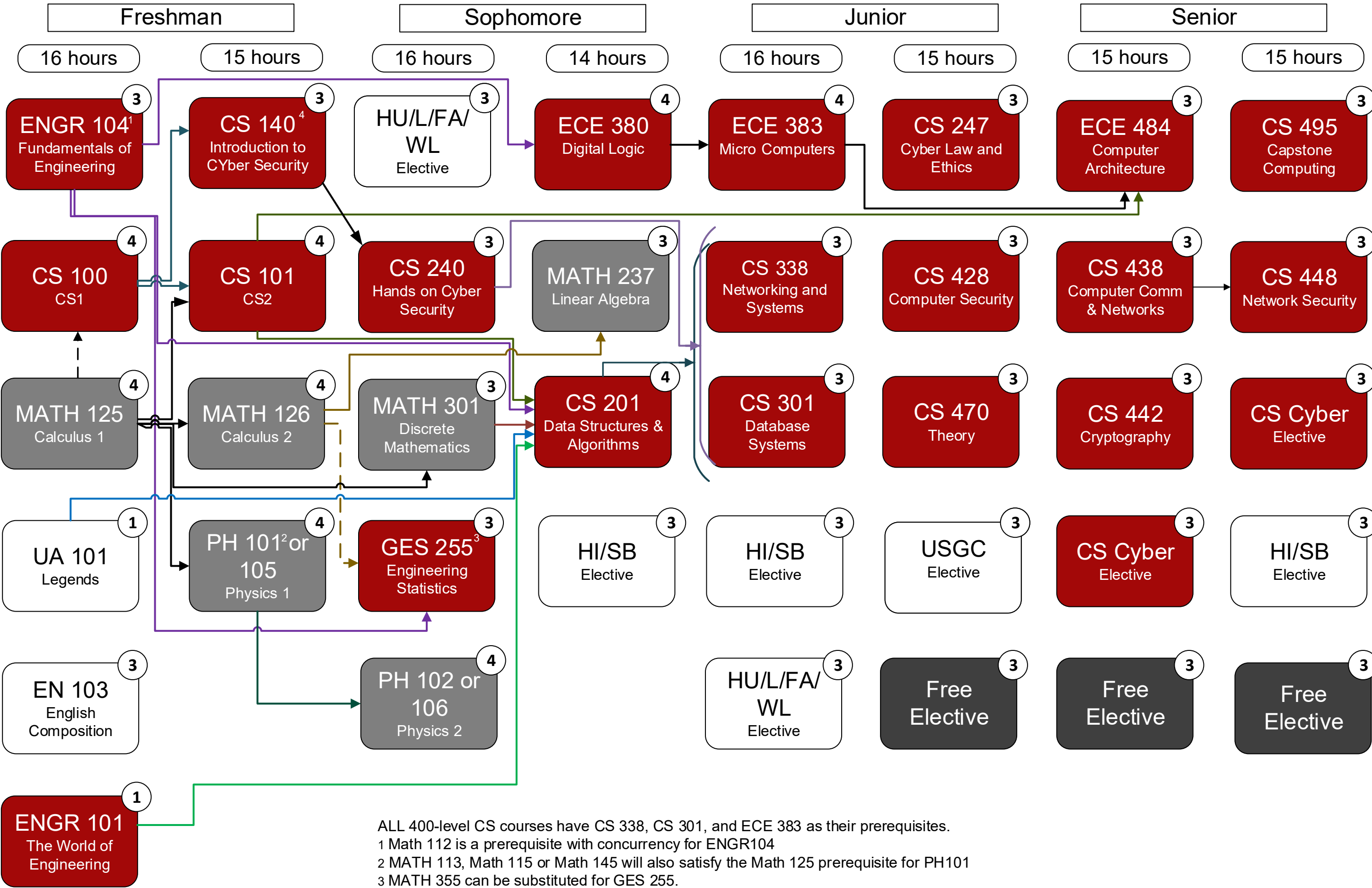# 2025 Cyber Security Curriculum

NOTE: This curriculum is effective for all students enrolling in CS 100 in Fall 2025 or later.

⟶ = course prerequisites. ----▶ = prerequisites with concurrency.

Freshman		Sophomore		Junior		Senior	
16 hours	15 hours	16 hours	14 hours	16 hours	15 hours	15 hours	15 hours

ENGR 104 [1] (3) Fundamentals of Engineering	**CS 140** [4] (3) Introduction to CYber Security	**HU/L/FA/ WL** (3) Elective	**ECE 380** (4) Digital Logic	**ECE 383** (4) Micro Computers	**CS 247** (3) Cyber Law and Ethics	**ECE 484** (3) Computer Architecture	**CS 495** (3) Capstone Computing
CS 100 (4) CS1	**CS 101** (4) CS2	**CS 240** (3) Hands on Cyber Security	**MATH 237** (3) Linear Algebra	**CS 338** (3) Networking and Systems	**CS 428** (3) Computer Security	**CS 438** (3) Computer Comm & Networks	**CS 448** (3) Network Security
MATH 125 (4) Calculus 1	**MATH 126** (4) Calculus 2	**MATH 301** (3) Discrete Mathematics	**CS 201** (4) Data Structures & Algorithms	**CS 301** (3) Database Systems	**CS 470** (3) Theory	**CS 442** (3) Cryptography	**CS Cyber** (3) Elective
UA 101 (1) Legends	**PH 101** [2] **or 105** (4) Physics 1	**GES 255** [3] (3) Engineering Statistics	**HI/SB** (3) Elective	**HI/SB** (3) Elective	**USGC** (3) Elective	**CS Cyber** (3) Elective	**HI/SB** (3) Elective
EN 103 (3) English Composition	**PH 102 or 106** (4) Physics 2			**HU/L/FA/ WL** (3) Elective	**Free Elective** (3)	**Free Elective** (3)	**Free Elective** (3)
ENGR 101 (1) The World of Engineering							

ALL 400-level CS courses have CS 338, CS 301, and ECE 383 as their prerequisites.
1 Math 112 is a prerequisite with concurrency for ENGR104
2 MATH 113, Math 115 or Math 145 will also satisfy the Math 125 prerequisite for PH101
3 MATH 355 can be substituted for GES 255.
4 CS 140 is a spring only class
* At least 3 credits from courses approved for the Literature designation.
* At least 3 credits from courses approved for the History design.
* CS 495 prerequisites: (CS 403 or CS 470) and (CS 4xx excluding CS 403 and CS 470).

Last Update: May 2025

122 Total Hours