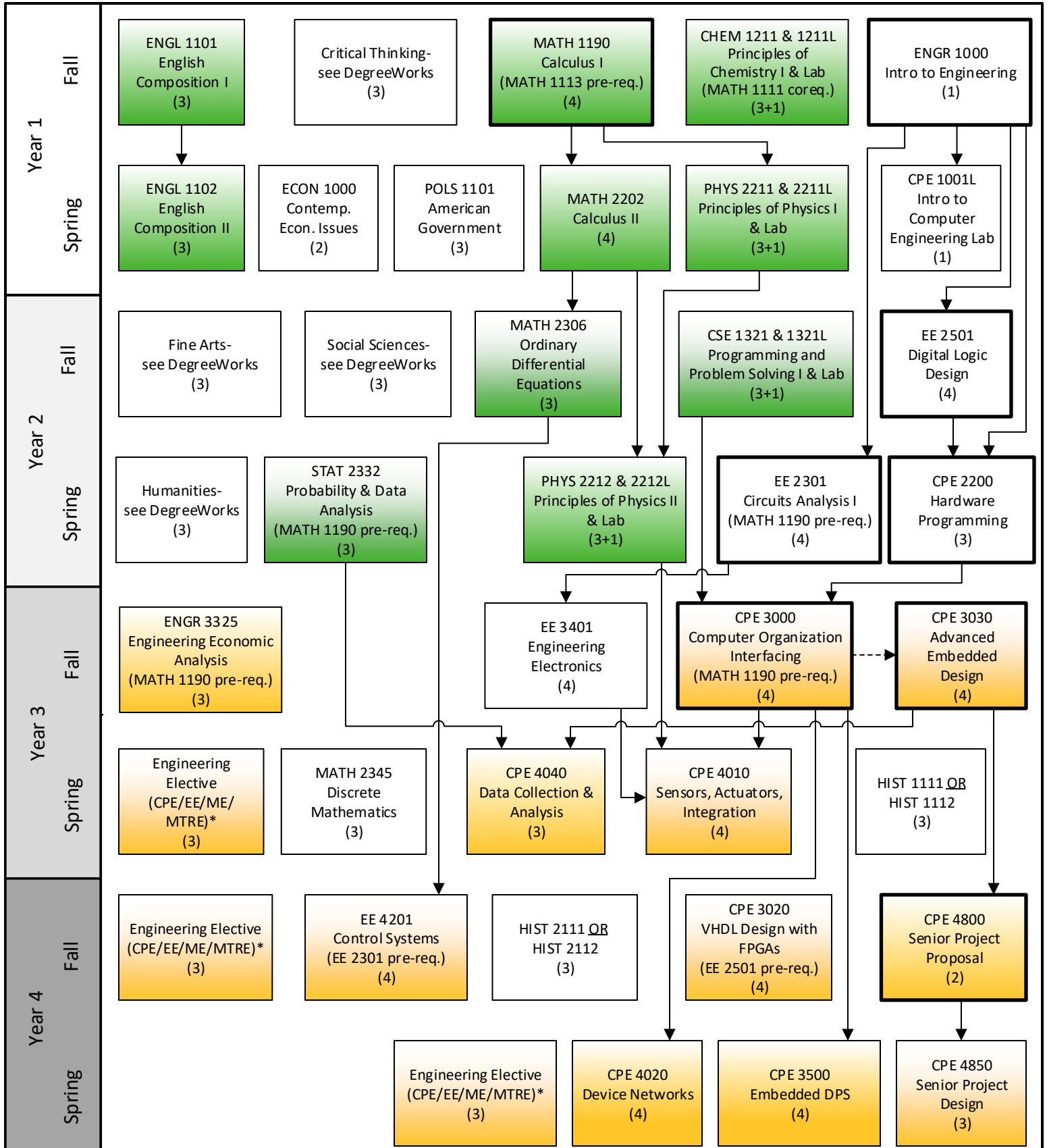# B.S. Computer Engineering 2024-2025 Flowchart

Disclaimer: Although we have made every effort for this flowchart to be free of errors, it cannot be guaranteed correct for all students. See DegreeWorks for official degree requirements.

Year 1

Fall
- ENGL 1101 English Composition I (3)
- Critical Thinking- see DegreeWorks (3)
- MATH 1190 Calculus I (MATH 1113 pre-req.) (4)
- CHEM 1211 & 1211L Principles of Chemistry I & Lab (MATH 1111 coreq.) (3+1)
- ENGR 1000 Intro to Engineering (1)

Spring
- ENGL 1102 English Composition II (3)
- ECON 1000 Contemp. Econ. Issues (2)
- POLS 1101 American Government (3)
- MATH 2202 Calculus II (4)
- PHYS 2211 & 2211L Principles of Physics I & Lab (3+1)
- CPE 1001L Intro to Computer Engineering Lab (1)

Year 2

Fall
- Fine Arts- see DegreeWorks (3)
- Social Sciences- see DegreeWorks (3)
- MATH 2306 Ordinary Differential Equations (3)
- CSE 1321 & 1321L Programming and Problem Solving I & Lab (3+1)
- EE 2501 Digital Logic Design (4)

Spring
- Humanities- see DegreeWorks (3)
- STAT 2332 Probability & Data Analysis (MATH 1190 pre-req.) (3)
- PHYS 2212 & 2212L Principles of Physics II & Lab (3+1)
- EE 2301 Circuits Analysis I (MATH 1190 pre-req.) (4)
- CPE 2200 Hardware Programming (3)

Year 3

Fall
- ENGR 3325 Engineering Economic Analysis (MATH 1190 pre-req.) (3)
- EE 3401 Engineering Electronics (4)
- CPE 3000 Computer Organization Interfacing (MATH 1190 pre-req.) (4)
- CPE 3030 Advanced Embedded Design (4)

Spring
- Engineering Elective (CPE/EE/ME/MTRE)* (3)
- MATH 2345 Discrete Mathematics (3)
- CPE 4040 Data Collection & Analysis (3)
- CPE 4010 Sensors, Actuators, Integration (4)
- HIST 1111 OR HIST 1112 (3)

Year 4

Fall
- Engineering Elective (CPE/EE/ME/MTRE)* (3)
- EE 4201 Control Systems (EE 2301 pre-req.) (4)
- HIST 2111 OR HIST 2112 (3)
- CPE 3020 VHDL Design with FPGAs (EE 2501 pre-req.) (4)
- CPE 4800 Senior Project Proposal (2)

Spring
- Engineering Elective (CPE/EE/ME/MTRE)* (3)
- CPE 4020 Device Networks (4)
- CPE 3500 Embedded DPS (4)
- CPE 4850 Senior Project Design (3)

*MTRE 3610, EE 3501, EE 3706, and EE 4701 are not allowed as electives. Prereqs for SWE and CS are (CS 1311 or CSE 1321) and CPE 3000.

Legend

- → Pre-requisite
- ---→ Can be taken concurrently
- Critical Path (Take these courses as soon as you can.)
- Needed to apply for Engineering Standing
- Requires Engineering Standing

Last updated 01/30/24