

Freshman Year

Sophomore Year

Junior Year

Senior Year

Semester 1

Semester 2

Semester 1

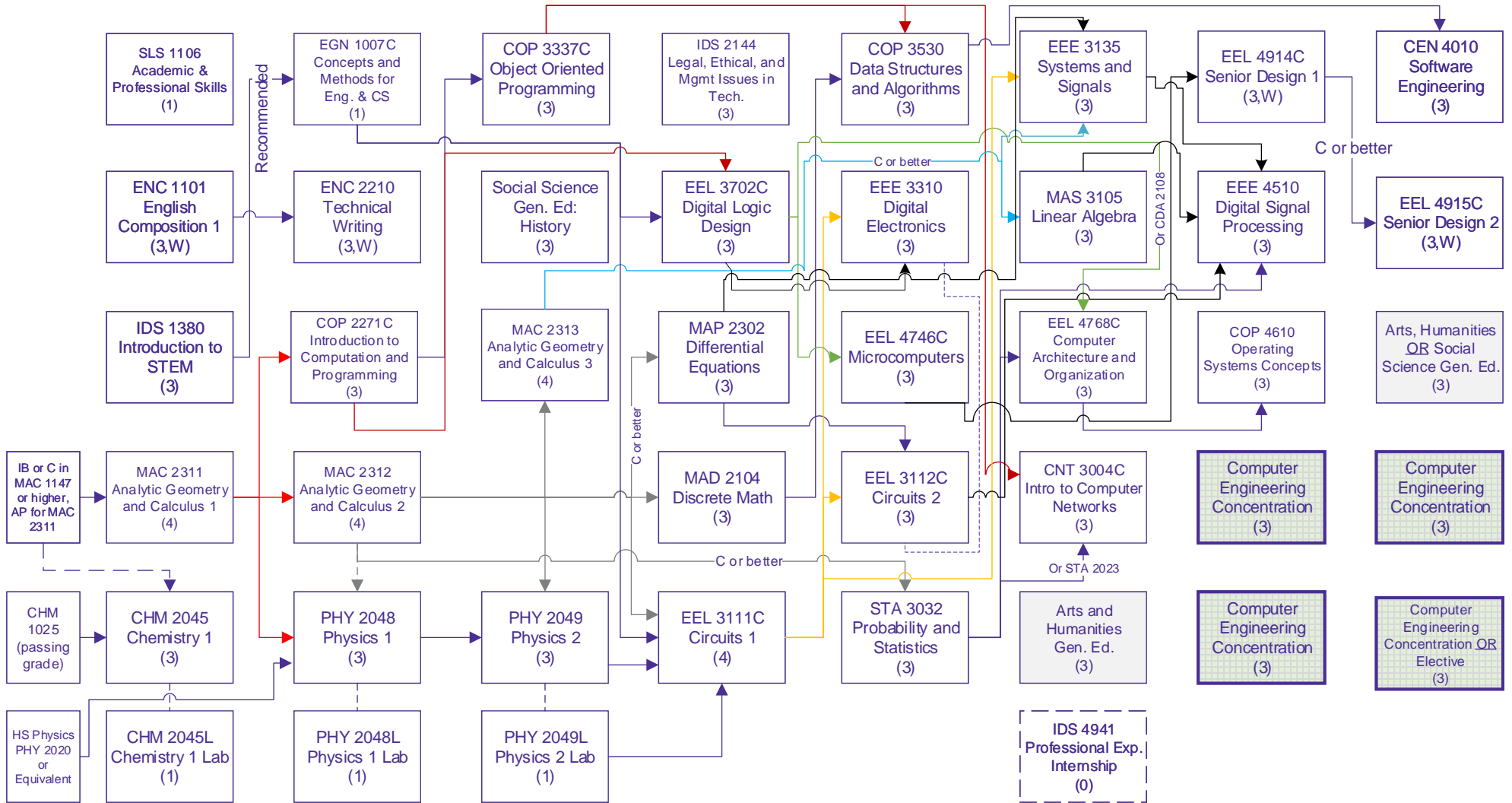
Semester 2

Semester 1

Semester 2

Semester 1

Semester 2



It is recommended that COP 2271C should get taken during the freshman year, semester one and IDS 1380 should get taken during the freshman year, semester two

Legend:

Course Number Course Name (credit, requirement met)	<div style="background-color: #c8e6c9; padding: 5px; border: 1px solid black;"> Program/ Concentration Elective </div>	<div style="background-color: #e0e0e0; padding: 5px; border: 1px solid black;"> General Education or Technical Elective </div>	<div style="border: 1px dashed black; padding: 5px;"> Permission from Dept. Chair, Provost, or Designee Needed </div>	Prerequisite Co-requisite Pre-Requisite OR Co-Requisite	
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Program/Concentration Electives

Advanced Topics

Students choose nine (9) credits from courses in the CE concentrations and three (3) credits from Computer Engineering electives.

Digital System Design

- [CDA 4210 VLSI Design \(3, EEL 4768C, EEE 3310\)](#)
- [EEE 3351 Electronic Devices \(3, EEL 3112C, CHM 2045, CHM 2045L\)](#)
- [EEL 4794 Power Aware Design \(3, EEL 3111C, CDA 4210\)](#)
- [Other CE concentration or program elective \(3\)](#)

Embedded Systems Design

- [CDA 3631C Embedded Operating Systems \(3, EEL 4768C or CDA 3100\)](#)
- [EEL 4724 Hardware Design with FPGAs and Reconfigurable Computing \(3, EEL 3702C\)](#)
- [EEL 4685C Embedded Control \(3, EEL 3135, EEL 4768C\)](#)
- [Other CE concentration or program elective \(3\)](#)

Machine Intelligence

- [COP 3330C Computer Programming 2 \(3, COP 2272C\)](#)
 - [CAP 4410 Computer Vision \(3, MAS 3114 or MAS 3105, COP 3330C, COP 4415 and COP 4531, or COP 3530\)](#)
- OR**
- [EEL 4759 Digital Image Processing \(3, EEL 3135\)](#)
 - [CAP 4612 Machine Learning \(3, COP 3530 or COP 4415 and COP 4531, MAS 3114 or MAS 3105, STA 2023\)](#)
 - [Other CE concentration or program elective \(3\)](#)

Autonomous Robotic Systems

- [EEL 4664C Kinematics and Control of Robotic Systems \(3, COP 2271C - and EEL 3111C and MAP 2302 and MAC 2313 and STA 3032\)](#)
- [EEL 4660C Autonomous Robotic Systems \(3, COP 2271C and COP 3337C and \(EEL 3702C or CDA 2108\)\)](#)
- [EEL 4759 Digital Image Processing \(3, EEL 3135\)](#)
- [Other CE concentration or program elective \(3\)](#)

Computer Engineering (Program Electives)

- [ENT 2112 Entrepreneurial Opportunity Analysis \(3\)](#)
- [MAD 3401 Numerical Analysis \(3, MAS 3114 or MAS 3105\)](#)
- [Or any other 3000 or 4000 level course with the following prefixes: CAP, CEN, CIS, CNT, COP \(except COP 4415 AND COP 4531\), EEL, EEE](#)

Arts, Humanities, and Social Sciences

Arts & Humanities

Required one (1) from the following:

- [ARH 2000 Art Appreciation \(3-W\)](#)
- [HUM 2020 Introduction to Humanities \(3-W, ENC 1101\)](#)
- [LIT 2000 Introduction to Literature \(3-W, ENC 1101\)](#)
- [PHI 2010 Introduction to Philosophy \(3-W\)](#)

Optional one of the following or more from Arts & Humanities required or Social Sciences:

- [IDS 2144 - Legal, Ethical, and Management Issues in Technology \(3-W\)](#)
- [HUM 2022 Explorations in the Humanities \(3-W\)](#)

Social Sciences

Required one (1) from the following:

- [AMH 2020 American History Since 1877 \(3-W\)](#)
- [PSY 2012 General Psychology \(3-W\)](#)
- [ECO 2013 Principles of Macroeconomics \(3-W\)](#)

Required one (1) from the following:

- [AMH 2010 American History to 1877 \(3-W\)](#)
- [ECO 2023 Principles of Microeconomics \(3-W\)](#)
- [AMH 2930 Special Topics \(1 to 3-W\)](#)

Total Program Credits: 120

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