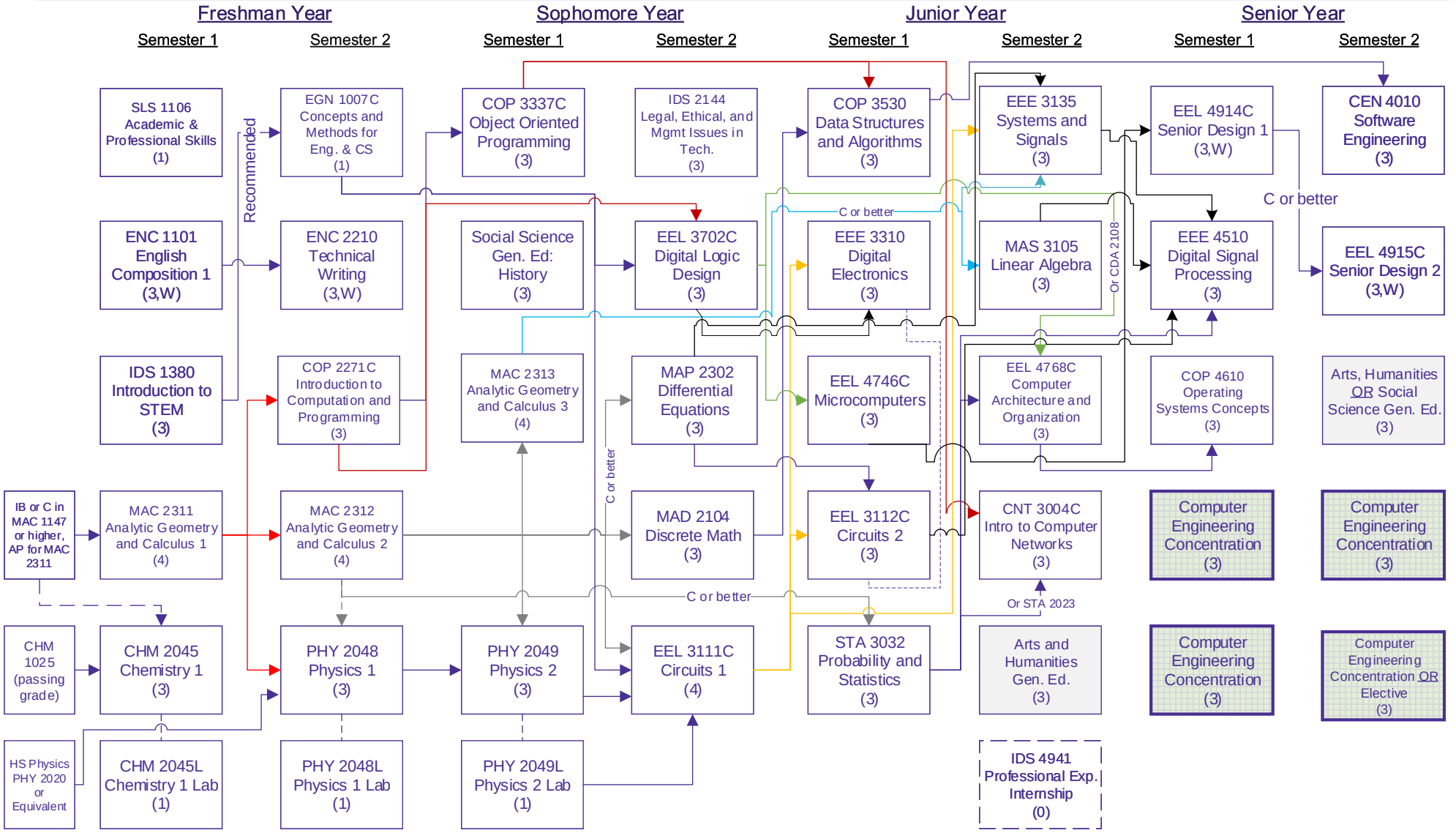
BS in Computer Engineering

2019-2020 Catalog



Legend:

- Course Number Course Name (credit, requirement met)
- Program/ Concentration Elective
- General Education or Technical Elective
- Permission from Dept. Chair, Provost, or Designee Needed
- Prerequisite
- Co-requisite
- Pre-Requisite OR Co-Requisite

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BS in Computer Engineering
Program/Concentration Electives and General Education

2019-2020 Catalog

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 Logic Design

- CDA 4210 VLSI Design (3, EEL 4768C, EEE 3310)
- EEE 4351 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)
- EGN 4930D 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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Click Here to view program plan of study

Click Here to access entire Florida Poly Catalog

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Legend: *Course name (credits-requirement met, pre-requisites/co-requisites)*

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Advanced Topics

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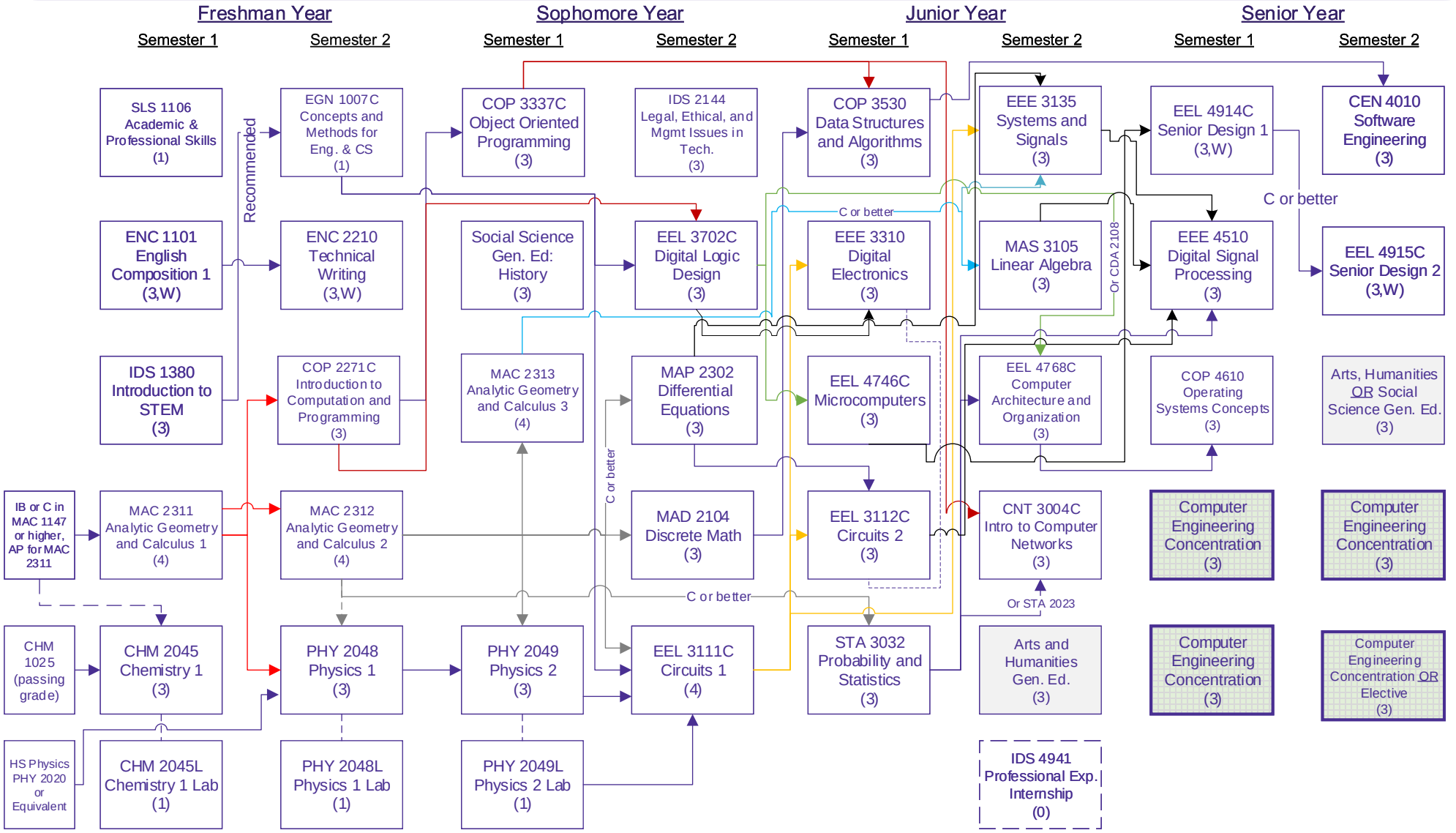

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BS in Computer Engineering
Autonomous Robotic Systems

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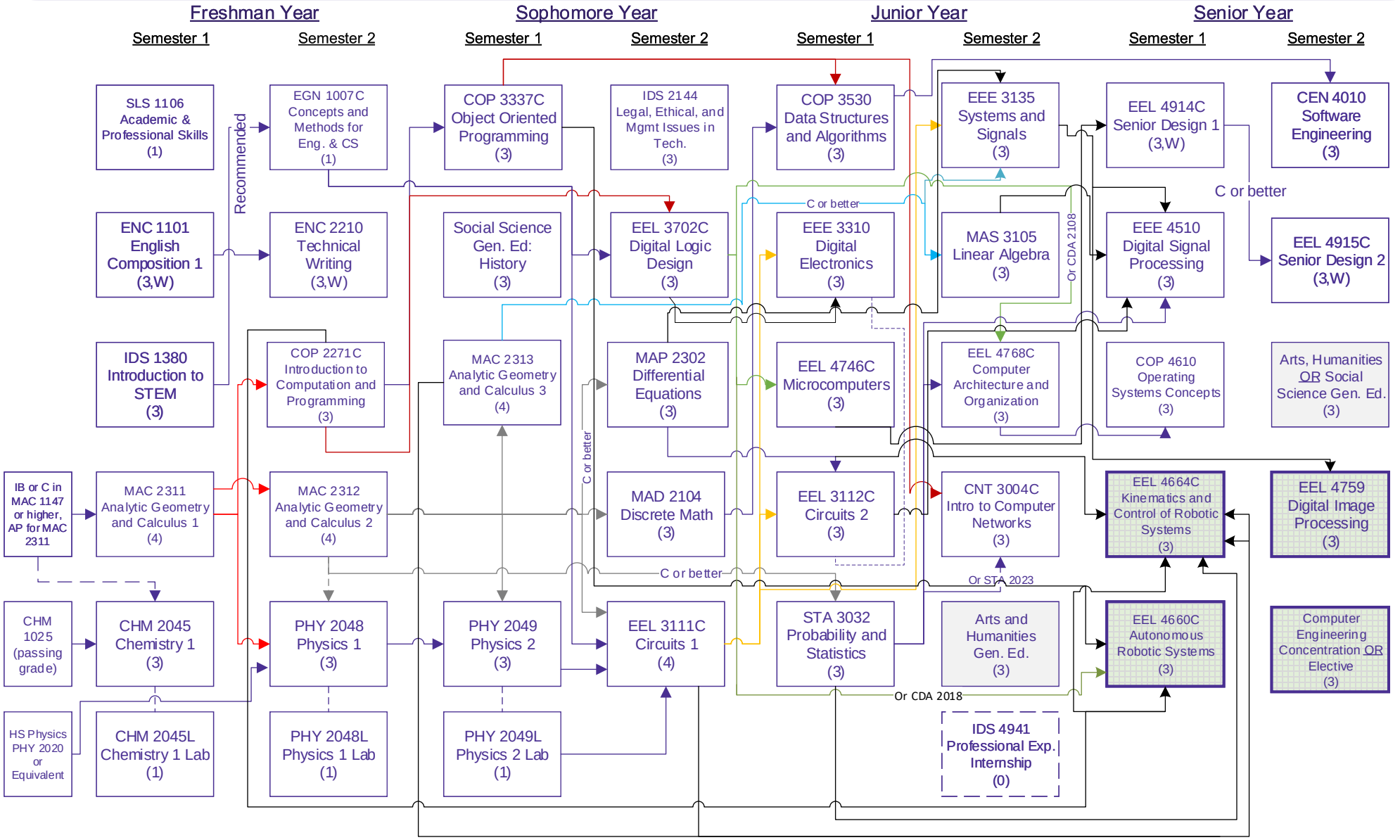

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Prerequisite

Co-requisite

Pre-Requisite OR Co-Requisite

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BS in Computer Engineering
Digital Logic Design

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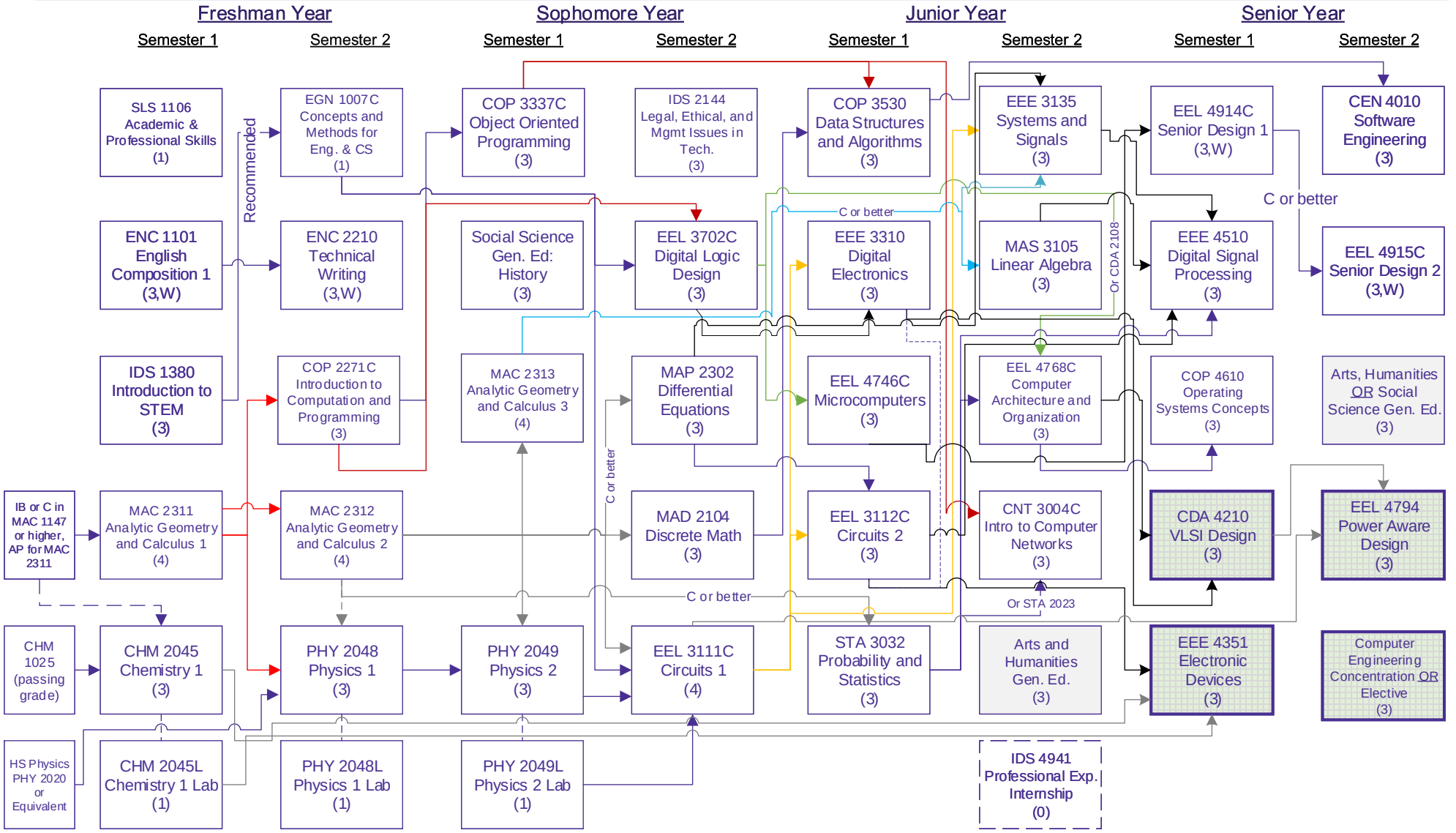

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BS in Computer Engineering
Embedded System Design

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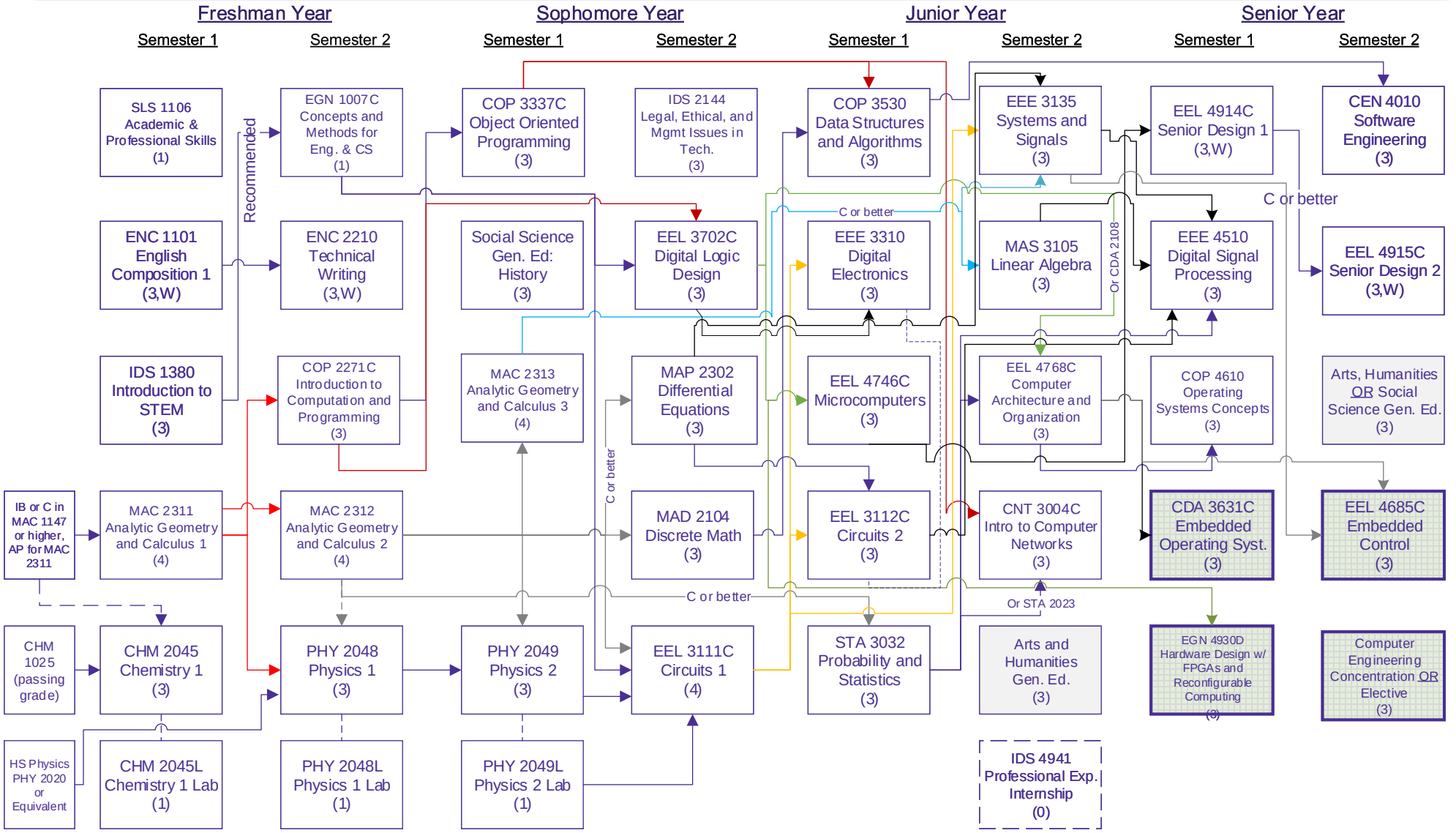

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BS in Computer Engineering
Machine Intelligence

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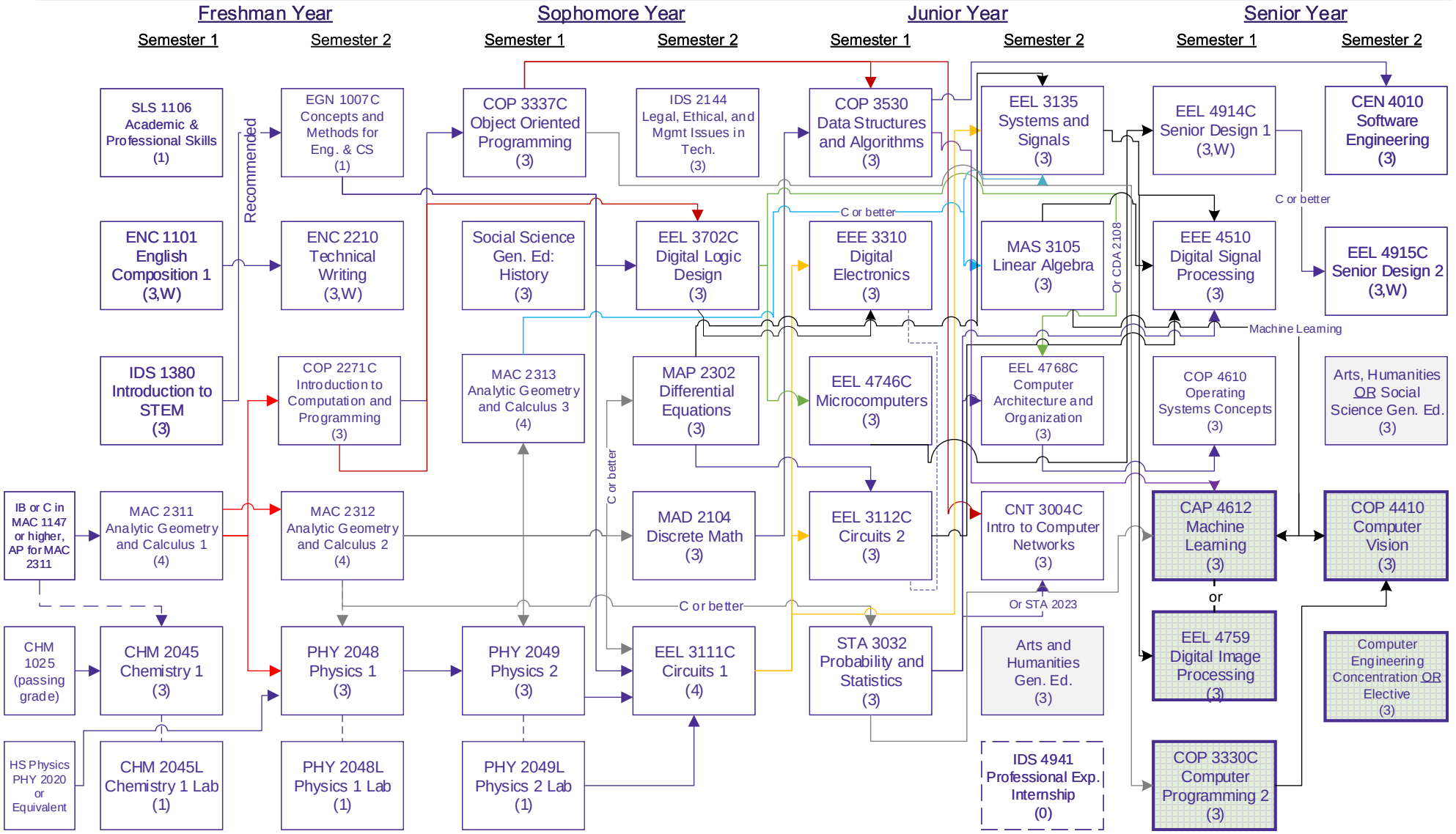

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