

Freshman Year

Sophomore Year

Junior Year

Senior Year

Semester 1

Semester 2

Semester 1

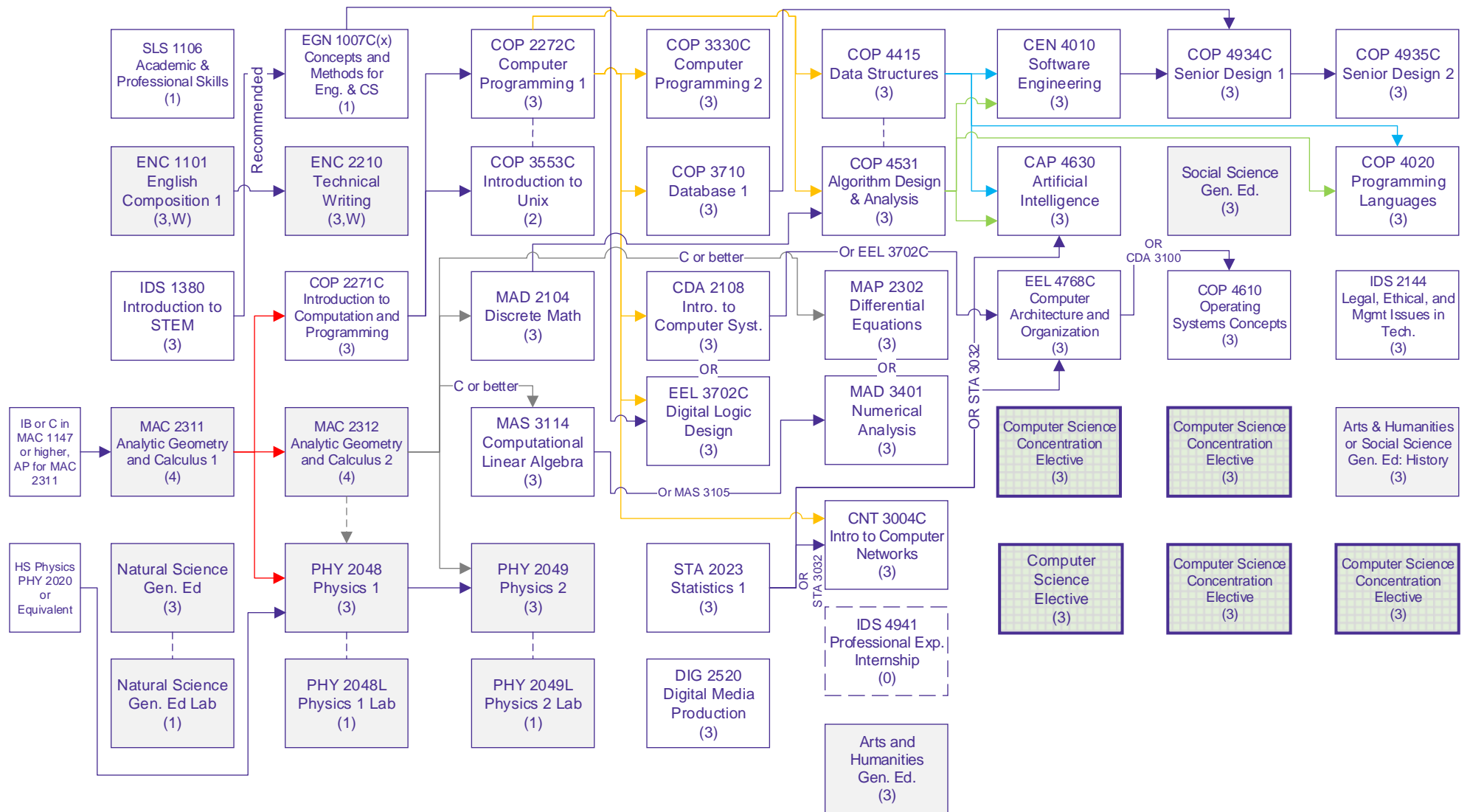
Semester 2

Semester 1

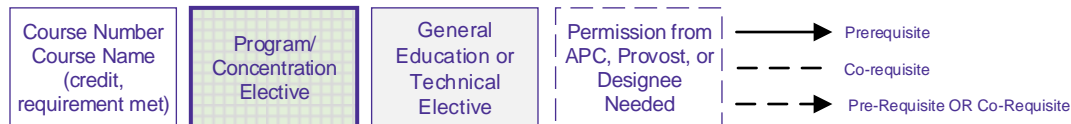
Semester 2

Semester 1

Semester 2



Legend:



BS in Computer Science

Program/Concentration Electives & General Education

2018-2019 Catalog

Program/Concentration Electives

Advanced Topics

Choose 12 credits from Cyber Gaming Concentration, Information Assurance & Cyber Security, or Computer Science elective courses.

Game Development & Simulation

- CAP 4034 Computer Animation (3, COP 4415, COP 4531)
- CAP 4052 Game Design and Development 1 (3, COP 4730)
- CAP 4056 Game Design and Development 2 (3, COP 4052)
- CAP 4730 Computer Graphics (3, COP 4415, COP 4531)

Information Assurance & Cyber - Security

- CIS 4203 Digital Forensics (3, CNT 3004C / CIS 4367)
- CIS 4204 Ethical Hacking (3, CNT 3004C / CIS 4367)
- CIS 4362 Applied Cryptography (3, STA 2023 OR STA 3032, COP 3530 OR COP 4415 and COP 4531)
- CIS 4367 Computer Security (3, CIS 4362 / COP 4610)

Software Engineering

- CEN 4073 Software Requirements Engineering (3, CEN 4010)
- CEN 4065 Software Design and Architecture (3, CEN 4073)
- CEN 4070 Software Verification and Quality Assurance (3, CEN 4073)
- CEN 4724 User Interface and User Experience (3, CEN 4010)

Computer Science (Program Electives)

- COP 2034C Intro. to Programming Using Python (3, MAC 2311)
- COP 3834C Web Application Development (3, COP 2271C)
- CEN 4088 Software Security Testing (3, CEN 4010)
- CAP 4122 Virtual Reality (3, CAP 4730)
- CEN 4213 Embedded Systems Programming (3, COP 4415, EEL 4768C)
- CIS 4369 Web Application Security (3, CIS 4362)
- CNT 4409 Network Security (3, CIS 4362, CNT 3004C)
- CAP 4410 Computer Vision (3, MAS 3114 OR MAS 3105, COP 3330C, COP 4415 and COP 4531 OR COP 3530)
- COP 4520 Intro. to Parallel and Distributed Computing (3, EEL 4768C OR CDA 3100, COP 4415, COP 4531)
- CNT 4526 Wireless and Mobile Networking (3, CNT 3004C, COP 4531)

Program/Concentration Electives

Computer Science (Program Electives)

- CAP 4612 Machine Learning (3, STA 2023, MAS 3114 OR MAS 3105, COP 3530 OR COP 4415 and COP 4531)
- COP 4620 Compilers and Interpreters (3, COP 4415)
- COP 4656 Mobile Device Applications (3, COP 2272C)
- EEL 4664C Autonomous Robotic Syst. (3, EEL 3202C OR CDA 2108)
- CEN 4721 Human Computer Interaction (3, COP 4415 and COP 4531)
- CAP 4830 Modeling and Simulation (3, STA 2023, COP 3330C)
- COP 4930 Special Topics (3, CEN 4010)

General Education

Arts & Humanities

Required one (1) from the following:

- ARH 2000 Art Appreciation (3-W)
- PHI 2010 Introduction to Philosophy (3-W)

Optional: HUM 2022 Explorations in Humanities (3-W)

Social Sciences

Required one (1) from the following:

- AMH 2020 American History Since 1877 (3-W; Civic Literacy)
- ECO 2013 Principles of Macroeconomics (3-W)
- PSY 2012 General Psychology (3-W)
- AMH 2930 Special Topics in American History (3-W)

Optional select from the following:

- AMH 2010 American History to 1877 (3-W)
- AMH 2930 Special Topics in American History (3-W)
- ECO 2023 Principles of Microeconomics (3-W)

Natural Science Elective

Select four (4) credits from the following:

- BSC 1010 Biology 1 (3 / BSC 1010L)
- BSC 1010 Biology 1 Lab (1 / BSC 1010)
- CHM 2045 Chemistry 1 (3, MAC 1147 OR Equivalent, or passing grade in CHM 1025 / CHM 2015L)
- CHM 2045L Chemistry 1 Lab (1/ CHM 2045)

Total Program Credits: 120

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