

## Freshman Year

## Sophomore Year

## Junior Year

## Senior Year

Semester 1

Semester 2

Semester 1

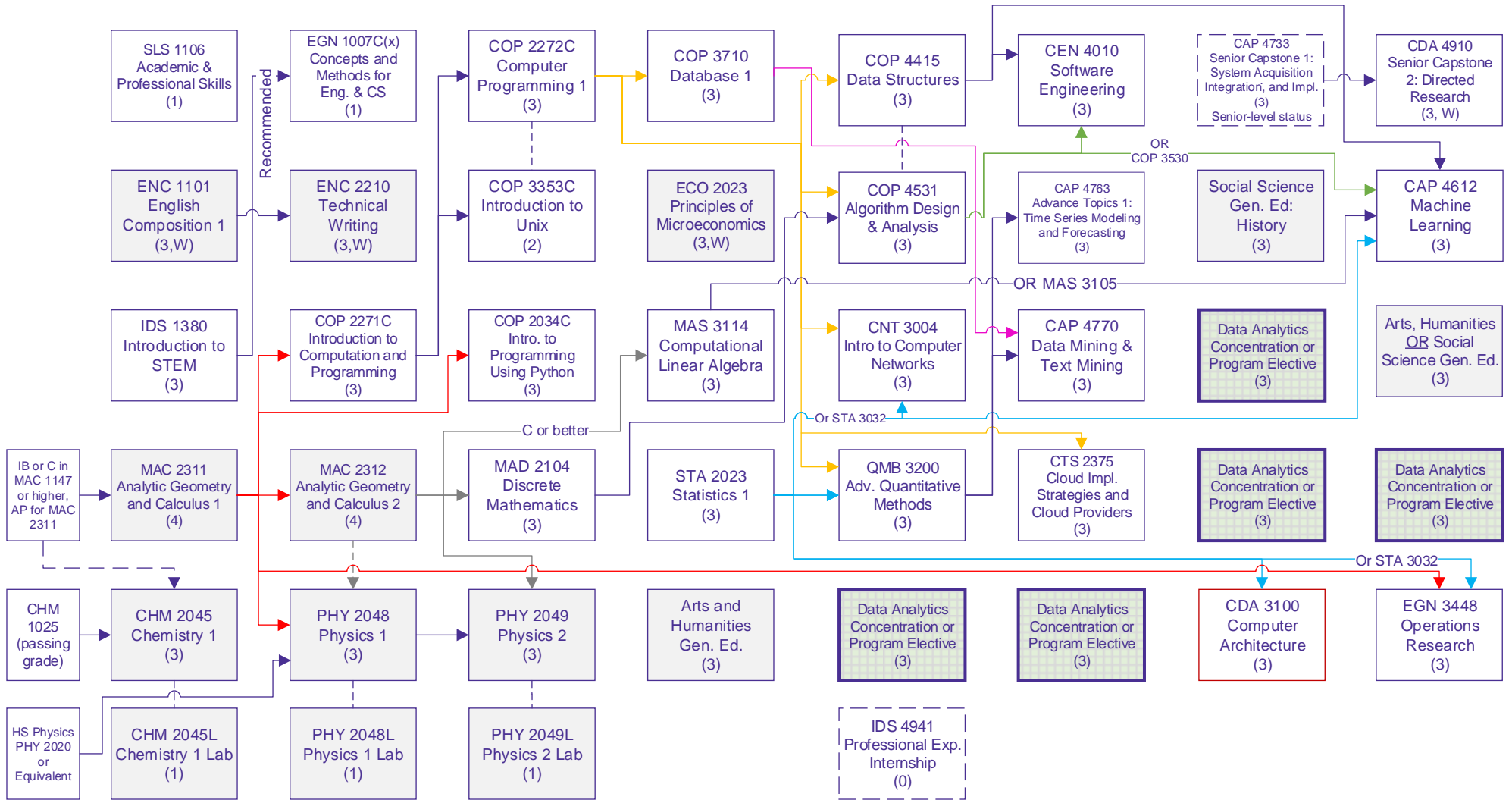
Semester 2

Semester 1

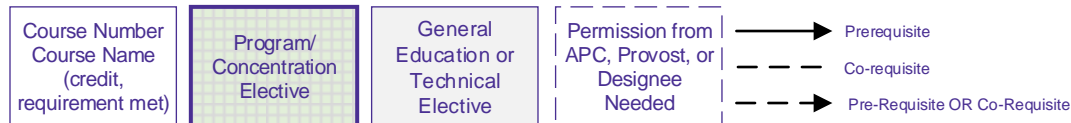
Semester 2

Semester 1

Semester 2



### Legend:



# BS in Data Science

## Program/Concentration Electives and General Education

2018-2019 Catalog

### Program/Concentration Electives

#### Big Data Analytics

- CIS 3301 Business Intelligence (3, COP 3710, QMB 3200)
- COP 3729 Database 2 (3, COP 3710)
- CAP 3774 Data Warehousing (3, COP 3710)
- XDS 4XXX Advanced Data Science (3, COP 3710, CAP 4770)

#### Internet of Things

- CNT 3200 Distributed Information Systems (3, COP 3710)
- CEN 4083 Advanced Concepts in Virtualization (3, COP 4610)
- COP 4610 Operating Systems Concepts (3, EEL 4768C OR CDA 3100)
- XDS 4XXX Advanced Data Science (3, COP 3710, CAP 4770)

#### Health Informatics

- HIM 2340 Development and Admin. of Health Information Systems (3)
- HIM 4064 Survey of the US Health Care System (3)
- HIM 4484 Advanced Topics 1: Consumer and Population Health Informatics (3, HIM 4064)
- XDS 4XXX Advanced Data Science (3, COP 3710, CAP 4770)

#### Intelligent Mobility

- MAN 2591 Introduction to Operations and Supply Management (3)
- MAN 4593 National Transportation Management (3, MAN 2591)
- CNT 4XXX Introduction to Transportation Networks (3, COP 2272C)
- CNT 4XX1 Data Analytics for Smart City & Transportation (3, COP 2272C)
- CNT 4XX2 Intelligent Mobility (3, COP 2272C)

#### Quantitative Economic & Econometrics

- CIS 3301 Business Intelligence (3, COP 3710, QMB 3200)
- ECO 3930 Special Topics (3, MAC 2311, STA 2023 QR Equivalent)
- ECP 4044 Economic Analysis for Technologists (3, ECO 2023, MAC 2311, STA 2023 QR Equivalent)
- CAP 4763 Advanced Topic 1: Time Series Modeling and Forecasting (3, QMB 3200)

### Data Science Program Electives

- CNT 3200 Distributed Information Systems (3, COP 3710)
- COP 3330C Computer Programming 2 (3, COP 2272C)
- COP 4520 Intro. to Parallel and Distributed Computing (3, EEL 4768C OR CDA 3100, COP 4415, COP 4531)
- ECP 4031 Benefit Cost Analysis (3, ECO 2023)
- EGS 3625 Engineering & Technology Project Management (3)
- ENT 2112 Entrepreneurial Opportunity Analysis (3)
- HIM 4654 Implementation of EHR/EMR and Clinical Support Methods (3, CIS 2005, COP 3710)
- HIM 4016 Policy Issues in Health Informatics (3, HIM 3626)

### 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)
- 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 2010 American History Since 1877 (3-W-Civic Literacy)
- PSY 2012 General Psychology (3-W)
- ECO 2013 Principles of Macroeconomics (3-W)

Required one (1) from the following:

- AMH 2020 American History to 1877 (3-W)
- AMH 2930 Special Topics (1 to 3-W)
- ECO 2023 Principles of Microeconomics (3-W); Already in plan of study

**Total Program Credits: 120**

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