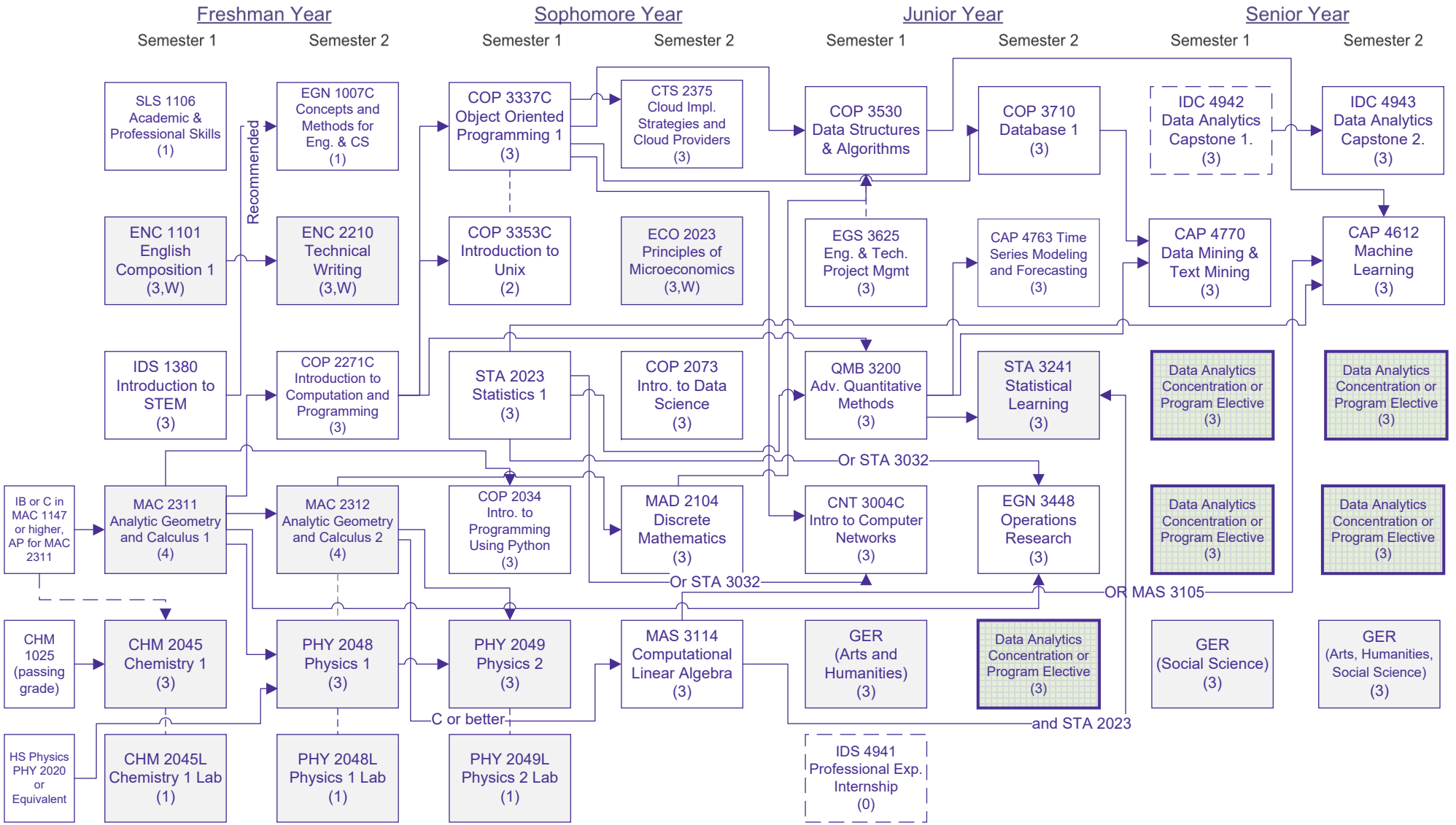
# BS in Data Science

2020-2021 Catalog




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)
- 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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Last Modified 06/2020

# BS in Data Science
# Program/Concentration Electives and General Education



## Program/Concentration Electives

**Big Data Analytics**
- CAP 4786 Topics in Big Data Analytics (3, COP 3710, MAS 3114)
- COP 3729 Database 2 (3, COP 3710)
- CAP 3774 Data Warehousing (3, COP 3710)
- Data Science Elective

**Health Systems Engineering**
- HIM 3490 - Introduction to Health Systems Engineering Credits: 3
- HIM 3514 - Health Systems Modeling and Optimization Credits: 3
- HIM 3654 - Health Systems Implementation Credits: 3
- Other DSBA concentration course OR program elective

**Intelligent Mobility**
- ESI 3005 - Introduction to Networks and a Connected World Credits: 3

-or- CNT 3004C - Introduction to Computer Networks Credits: 3
- ESI 4011 - Data Analytics for Smart City & Transportation Credits:
- ESI 4513 - Intelligent Mobility Credits: 3

Select one course from the following:
- MAN 4593 - National Transportation Management Credits: 3
- MAN 4594 - Reverse Logistics Credits: 3
- AVM 3012 - Air Transportation and Operations Credits: 3

**Quantitative Economic & Econometrics**
- ECP 4044 - Economic Analysis for Technologists Credits: 3
- ECO 3930 - Special Topics Credits: 3
- Other Concentration course or program elective Credits: 3
- ECP 4031 - Benefit Cost Analysis Credits: 3

-or- CAP 4763 - Time Series Modeling and Forecasting Credits: 3
(students take whichever is not already required in the degree)

## Data Science Program Electives

- CNT 3200 - Distributed Information Systems Credits: 3
- COP 3330C - Computer Programming 2 Credits: 3
- COP 4520 - Introduction to Parallel and Distributed Computing Credits: 3
- CAP 4793 - Advanced Data Science Credits: 3
- ENT 2112 - Entrepreneurial Opportunity Analysis Credits: 3

## Data Science Program Electives (Continued)

- HIM 4654 - Implementation of EHR/EMR and Clinical Support Methods Credits: 3
- HIM 4016 - Policy Issues in Health Informatics Credits: 3
- CAP 4630 - Artificial Intelligence Credits: 3
- EGN 3466 - Discrete Event Simulation Credits: 3
- CNT 4403 - Data Security Credits: 3
- CEN 4010 - Software Engineering Credits: 3
- CAP 4410 - Computer Vision Credits: 3

## 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***

Click Here to print program planner

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)*