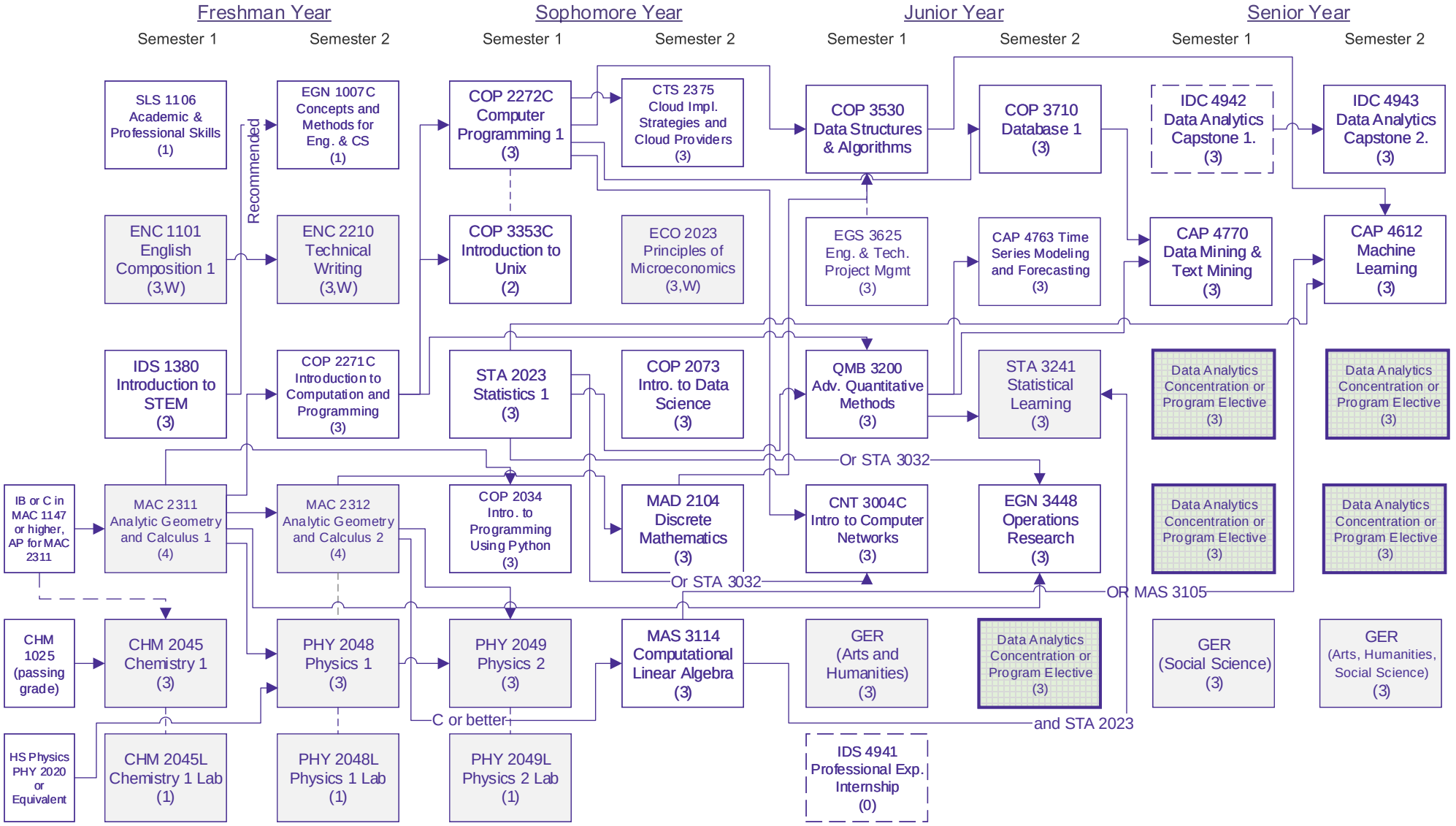
BS in Data Science

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 Data Science
Program/Concentration Electives and General Education

2019-2020 Catalog

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 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)
- Data Science Elective

Intelligent Mobility

- MAN 4593 National Transportation Management (3)
- ESI 3005 - Introduction to Networks and a Connected World (3, COP 2272C)
- ESI 4011 - Data Analytics for Smart City & Transportation (3, ESI 3005)
- ESI 4513 - Intelligent Mobility (3, ESI 3005)

Quantitative Economic & Econometrics

- ECO 3930 Special Topics (3, MAC 2311, STA 2023 or equivalent)
- ECP 4044 Economic Analysis for Technologists (3, ECO 2023, MAC 2311, STA 2023 or equivalent)
- *for DS majors:* ECP 4031 Benefit Cost Analysis (3, ECO 2023)
  for BA majors: CAP 4763 Time Series Modeling and Forecasting (3, QMB 3200)
- Data Science Elective

Data Science Program Electives

- CNT 3200 Distributed Information Systems (3, COP 3710)
- COP 3330C Computer Programming 2 (3, COP 2272C)
- CDA 3100 Computer Architecture (3, COP 2272C, STA 2023)
- COP 4520 Intro. to Parallel and Distributed Computing (3, EEL 4768C OR CDA 3100, COP 3530)
- CAP 4793 Advanced Data Science (3, CAP 4770, COP 3710)
- ENT 2112 Entrepreneurial Opportunity Analysis (3)
- HIM 4654 Implementation of EHR/EMR and Clinical Support Methods (3, COP 3710)
- HIM 4016 Policy Issues in Health Informatics (3)
- CAP 4630 Artificial Intelligence (3, STA 2023, COP 3530)
- EGN 3XX5 Discrete Event Simulation (3)
- CNT 4403 Data Security (3, COP 3530)
- CEN 4010 Software Engineering (3, COP 3530)
- CAP 4830 Modeling and Simulation (3, STA 2023, COP 3330C)
- CAP 4410 Computer Vision (3, MAS 3114, COP 3330C, COP 3530)

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)*

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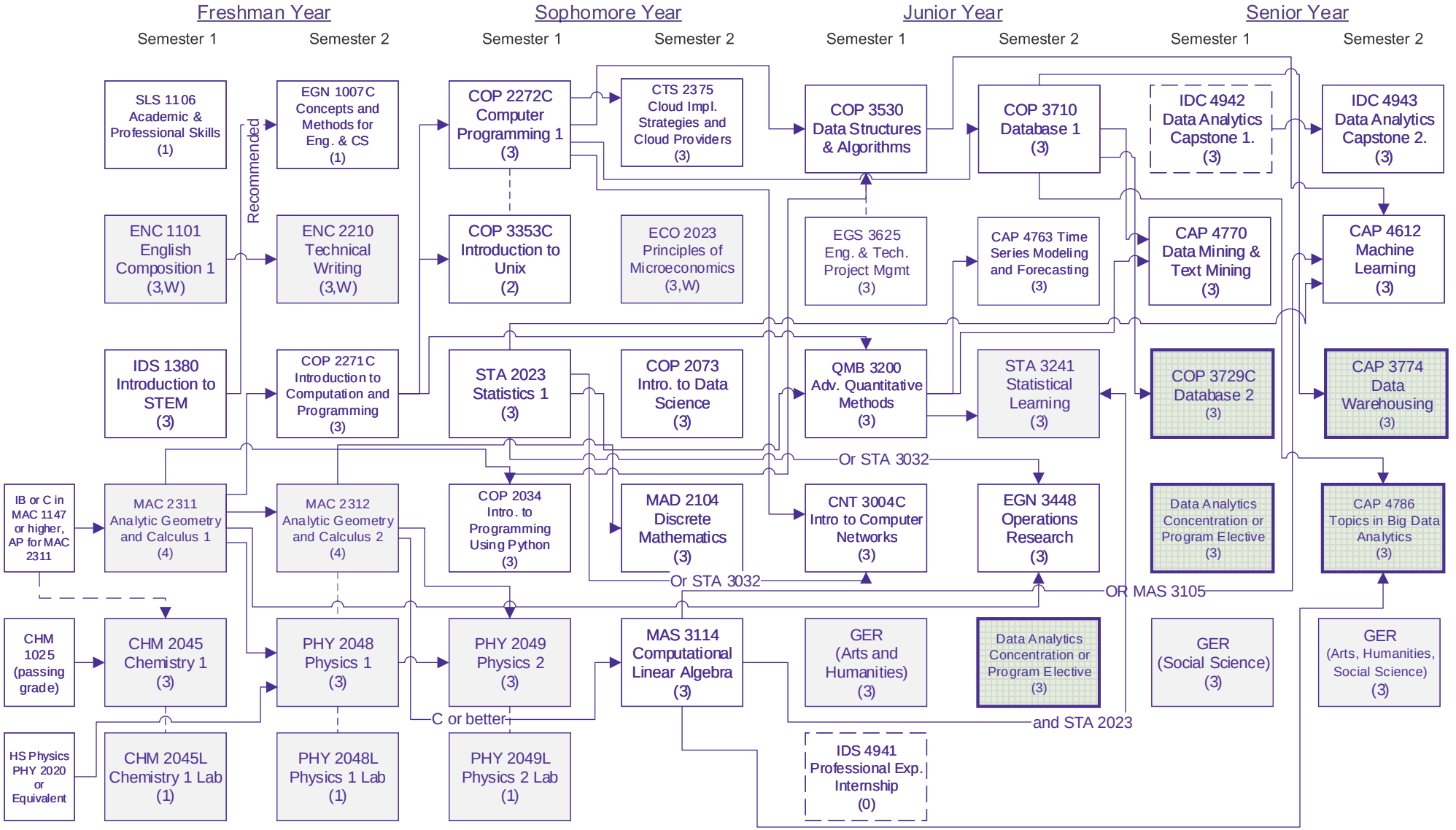
BS in Data Science
Concentration: Big Data Analytics

2019-2020 Catalog



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- Prerequisite
- Co-requisite
- Pre-Requisite OR Co-Requisite

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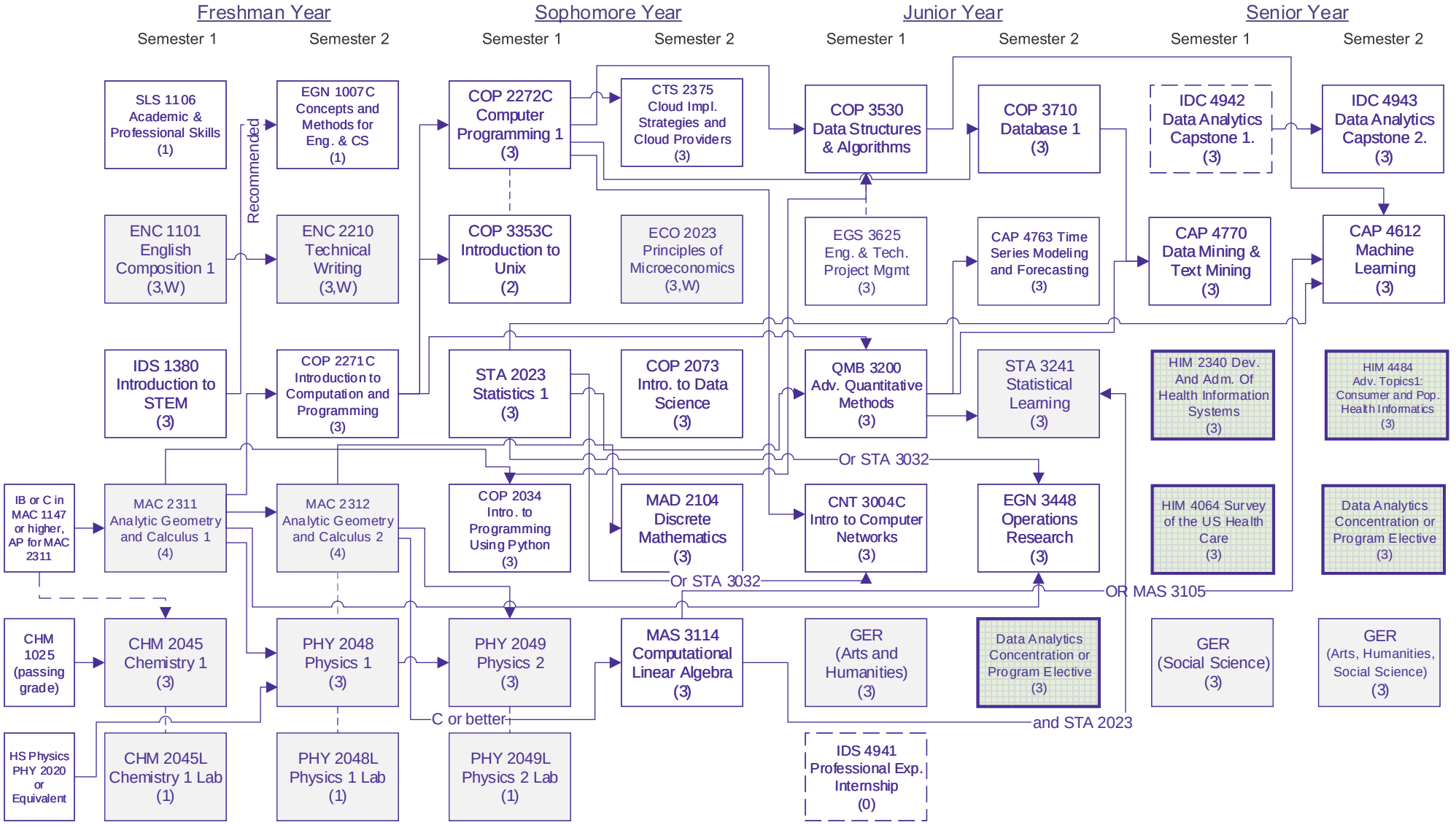
Last Modified 07/2019

BS in Data Science
Concentration: Health Informatics

2019-2020 Catalog



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- General Education or Technical Elective
- Permission from Dept. Chair, Provost, or Designee Needed
- Prerequisite
- Co-requisite
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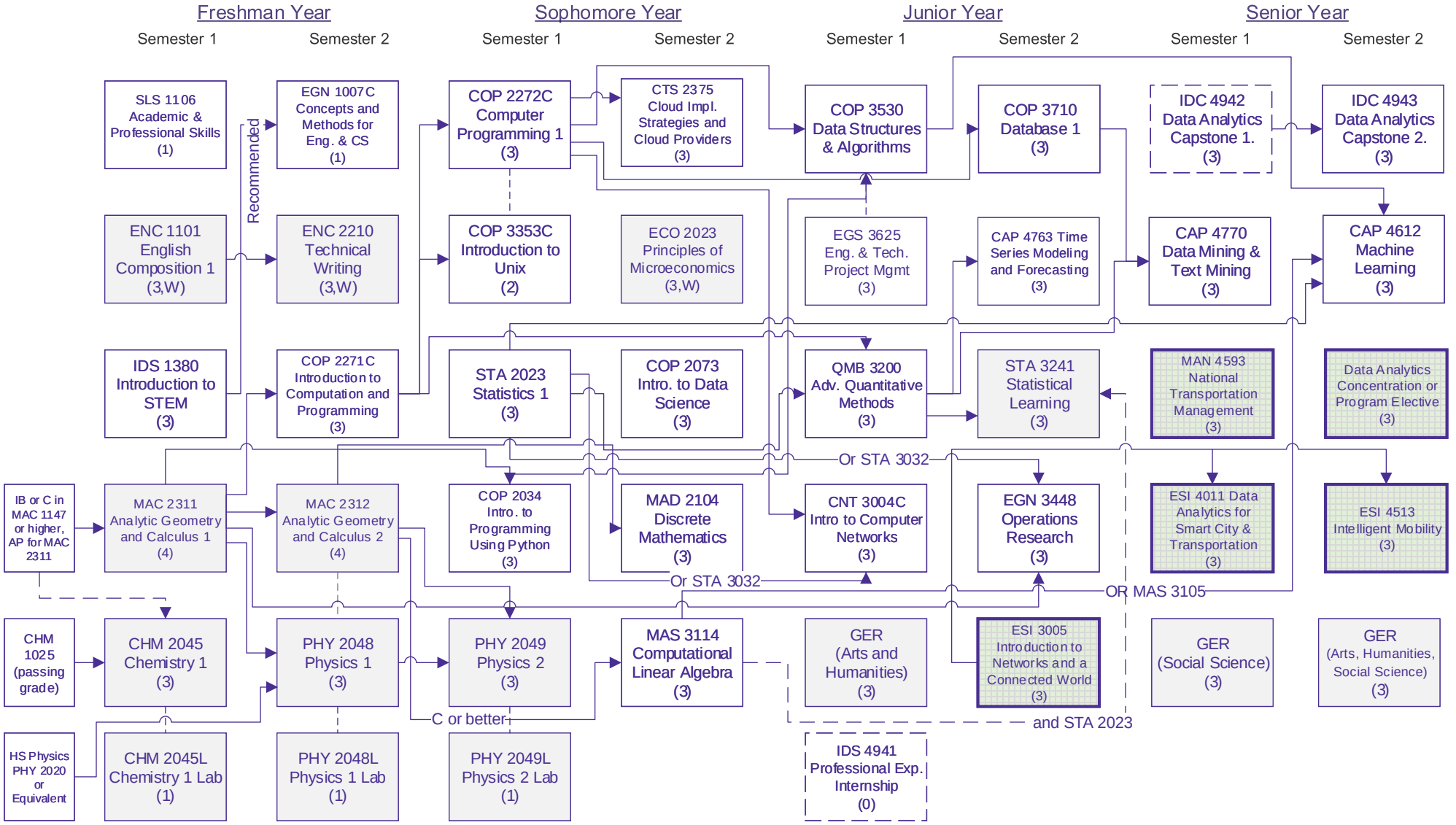
BS in Data Science
Concentration: Intelligent Mobility

2019-2020 Catalog



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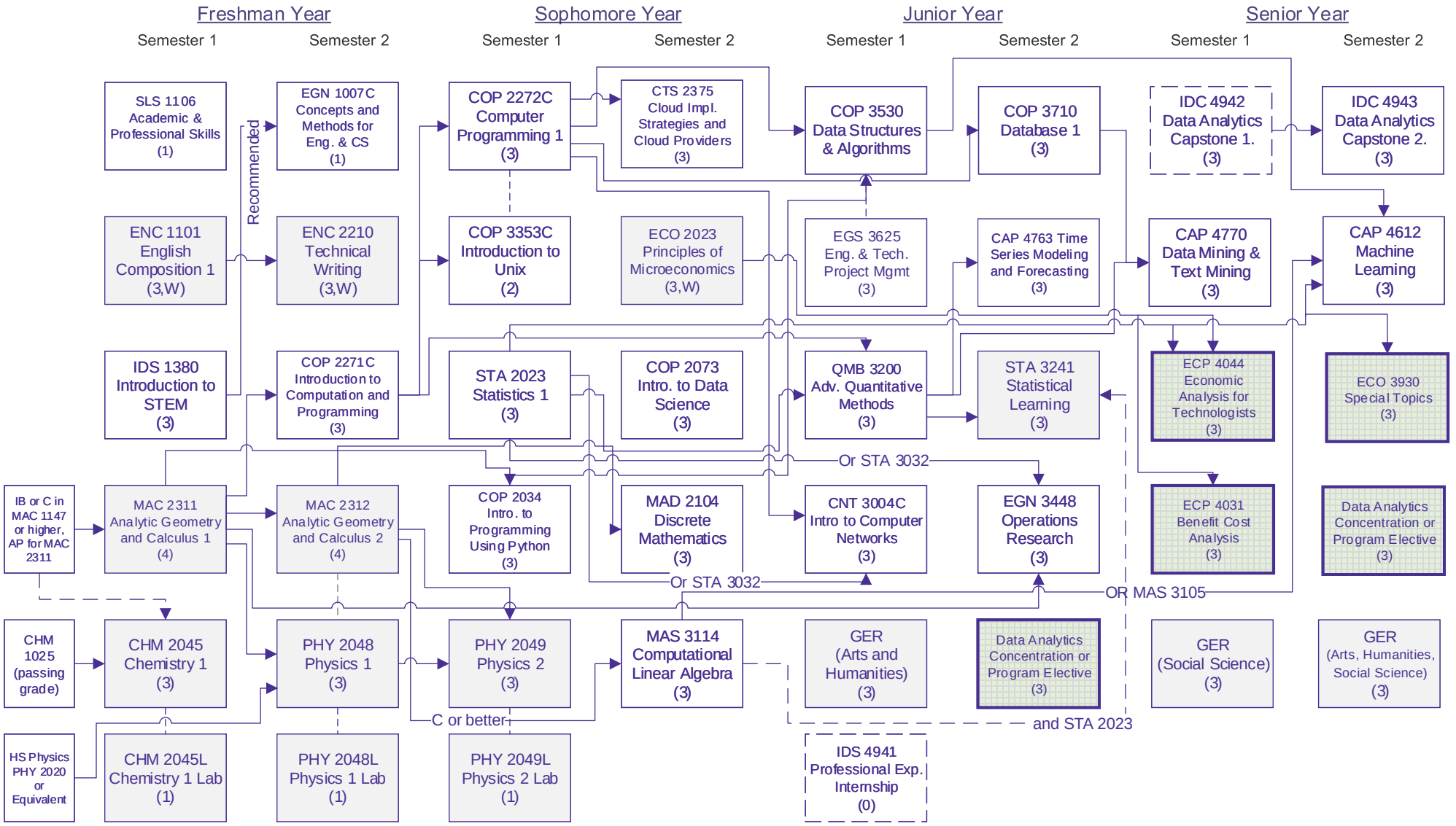
BS in Data Science
Concentration: Quantitative Economics and Econometrics

2019-2020 Catalog



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