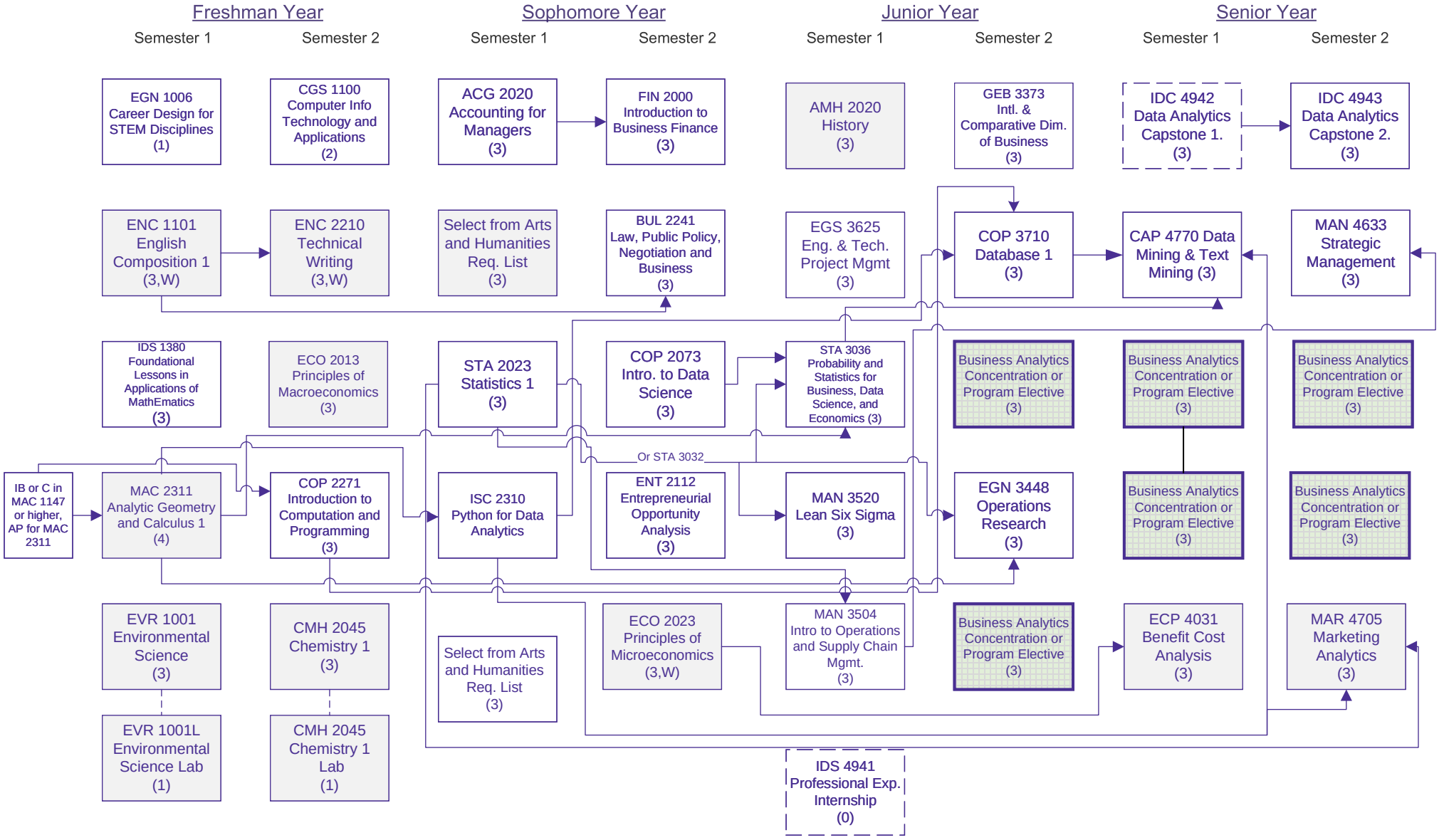
BS in Business Analytics

2022-2023 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

FLORIDAPOLY

Last Modified 5/2022

BS in Business Analytics
Program/Concentration Electives and General Education

Program/Concentration Electives

Advanced Topics

- Choose 12 credits from Business Analytics Concentrations or Business Analytics elective courses.

Logistics and Supply Chain Management

- MAN 3570 – Purchasing and Materials Management (3)
- MAN 3610 – Global Logistics Management (3)

Select two courses from the following:

- MAN 4594 – Reverse Logistics (3, MAN 2591 or MAN 3504), EGN 3448)
- MAN 4522 – Planning and Control Systems for Supply Chain Management (3, MAN 2591 or MAN 3504, EGN 3448)
- MAN 4593 – National Transportation Management (3, COP 2271)
- AVM 3012 – Air Transportation and Operations (3, MAN 2591 or MAN 3504)

Health Systems Engineering

- HIM 3490 - Introduction to Health Systems Engineering (3, MAC 2311 and STA 2023)
- HIM 3514 - Health Systems Modeling and Optimization (3, MAC 2311 and STA 2023)

Select two courses from the following:

- HIM 4016 – Policy Issues in Health Informatics (3)
- HIM 4644 – Implementation of EHR/EMR and Clinical Support Methods (3, COP 3710)
- EGN 3466 – Discrete Event Simulation (3, (STA 2023 or STA 3032) or COP 2271)
- ECO 4422 – Econometrics: Casual Inference, Panel and Survey Data (3)

Intelligent Mobility & Autonomous Systems

- ESI 4531 – Intelligent Mobility (3, COP 2271)

Select 2 or 3 from the following:

- ESI 3005 – Introduction to Networks and a Connected World (3, COP 2271)
- ESI 4011 – Data Analytics for Smart City & Transportation (3, ESI 3005 or CNT 3004C)
- COP 4421 – Autonomous Systems Programing (3, COP 3337)

Possible elective (maximum of 1 may be taken):

- MAN 4593 – National Transportation Management (3, COP 2271)
- MAN 4594 – Reverse Logistics (3, MAN 2591 or (MAN 3504 and EGN 3448))
- AVM 3012 – Air Transportation and Operations (3, MAN 2591 or MAN 3504)
- CAP 4410 – Computer Vision (3, (MAS 3114 or MAS 3105) and COP 3809C and ((COP4415 and COP 4531) or COP 3530))
- CEN 4721 – Human Computer Interaction (3, COP 4415 and COP 453)

Quantitative Economic & Econometrics

- ECO 4400 - Game Theory and Strategic Decisions (3, MAC 2311, STA 2023)
- ECO 4422 - Econometrics: Causal Inference, Panel and Survey Data (3, STA 3036)
- ECP 3004 - Contemporary Economic Issues (3, ECO 2023 or ECO 2013, STA 2023, MAC 2311)
- ECP 4044 - Economic Analysis for Technologists (3, ECO 2023, MAC 2311, STA 2023)

Business Analytics Program Electives

- STA 3241 - Statistical Learning (3, STA 3036 or (MAS 3114 and STA 2023)
- COP 3834C - Web Application Development (3, COP 2271C)
- MAC 2312 - Analytic Geometry and Calculus 2 (4, MAC 2311)
- MAN 3613 - Supply Chain Risk Management (3, MAN 2591 or MAN 3504)
- ISC 4930 – Special Topics
- STA 4853 – Time Series Analysis for Business, Data Science and Economics (3, STA 4853)
- Any DSBA concentration course outside of a pursued concentration.

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)
- MUL2010 Music Appreciation (3)

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