

# Master of Professional Studies in Analytics

## Quarter to Semester Program Comparison

Degree Requirements	Current Quarter Hours	Semester Hours - Fall 2026
Core Courses + Capstone	24	18
Electives	6	4-5
Concentrations	15	12
Total Degree Hours	45	34-35

**Quarter Format**

**Campus:**  
Boston / Virtual

**Semester Format**

### Core Courses: 24 Quarter Hours (QH)

Complete all the required courses:

- ALY 6000 Introduction to Analytics (3)
- ALY 6010 Probability Theory and Introductory Statistics (3)
- ALY 6015 Intermediate Analytics (3)
- ALY 6050 Introduction to Enterprise Analytics (3)
- ALY 6070 Comm. & Visualization for Data Analytics (3)
- ITC 6000 Database Management Systems (3)
- ALY 6080 Integrated Experiential Learning (3)
- ALY 6980 Capstone (3)

### Elective Courses: 6 Quarter Hours (QH)

- ALY 6020 Predictive Analytics (3)
- ALY 6030 Data Warehousing and SQL (3)
- ALY 6060 Decision Support and Business Intelligence (3)
- ALY 6110 Data Management and Big Data (3)
- ALY 6120 Leadership in Analytics (3)
- ALY 6130 Risk Management for Analytics (3)
- ALY 6140 Python and Analytics Systems Technology (3)
- ALY 6150 Healthcare/Pharm. Data and Applications (3)
- ALY 6160 Business Intelligence in Healthcare /Pharm. (3)
- ALY 6983 Topics (3)

### Other Approved Electives:

- CED 6230, CMN 6005, COP 6940, EAI 6000, EAI 6010, EAI 6020, EAI 6400, EDU 6184, GIS 5201, ITC 6020, ITC 6045, ITC 6310, LDR 6110, LDR 6135, PJM 6015, PJM 6125, PJM 6180

### Core Courses: 18 Semester Hours (SH)

Complete all the required courses:

- ALY 6105 Introduction to Applied Statistics (3)
- ALY 6115 Foundations of Data Analytics (3)
- ALY 6125 Intermediate Analytics (3)
- ALY 6135 Introduction to Enterprise Analytics (3)
- ALY 6145 Communication and Visualization with Data (3)
- ALY 6980 Capstone (3)

### Elective Courses: 4-5 Semester Hours (SH)

- ALY 6400 Integrated Experiential Learning (3)
- ALY 6410 Healthcare Analytics: From Data to Decisions (2)
- ALY 6420 Introduction to Queries (2)
- ALY 6430 Machine Learning Operations (2)
- ALY 6440 Text Analytics and Language Processing (2)
- ALY 6983 Topics (1-4)

### Elective Option:

Any College of Professional Studies graduate-level courses or unused courses in the program or a combination of both in lieu of a concentration.

# Master of Professional Studies in Analytics

## Quarter to Semester Program Comparison

### Quarter Format

Campus:  
Boston / Virtual

### Semester Format

#### Concentrations: 15 Quarter Hours (QH)

##### Applied Machine Intelligence

- ALY 6040 Data Mining Applications (3)
- ALY 6110 Data Management and Big Data (3)
- EAI 6000 Fundamentals of Artificial Intelligence (3)
- EAI 6010 Applications of Artificial Intelligence (3)
- EAI 6020 AI System Technologies (3)

##### Evidence-Based Management

- ALY 6040 Data Mining Applications (3)
- ALY 6060 Decision Support and Business Intelligence (3)
- ALY 6120 Leadership in Analytics (3)
- ALY 6130 Risk Management for Analytics (3)
- PJM 6005 Project Scope Management (3)

##### Statistical Modeling

- ALY 6020 Predictive Analytics (3)
- ALY 6030 Data Warehousing and SQL (3)
- ALY 6040 Data Mining Applications (3)
- ALY 6110 Data Management and Big Data (3)
- ALY 6140 Python and Analytics Systems Technology (3)

#### Concentrations: 12 Semester Hours (SH)

##### Applied Machine Intelligence

- AAI 6600 Applied Artificial Intelligence (3)
- AAI 6620 Applied Natural Language Processing (3)
- AAI 6630 Applied Computer Vision (3)
- Complete 3 semester hours from the following:
  - AAI 6640 Applied Deep Learning (3)
  - AAI 6650 Recommender Systems (3)
  - AAI 6680 AI for Cybersecurity (3)

##### Evidence-Based Management

- ALY 6400 Integrated Experiential Learning (3)
- ALY 6610 Data Mining Applications (3)
- ALY 6700 Decision Support and Business Intelligence (3)
- ALY 6710 Leadership in Analytics (3)

##### Statistical Modeling

- ALY 6600 Data Warehousing and Querying (3)
- ALY 6610 Data Mining Applications (3)
- ALY 6620 Big Data and Cloud Computing (3)
- ALY 6630 Programming for Data Science (3)

##### Insurance Analytics

- INS 6100 Introduction to Insurance Data Analytics (3)
- INS 6150 Intermediate Insurance Analytics (3)
- INS 6250 Claims Management (3)
- INS 6300 Insurance Underwriting (3)

