

MASTER OF SCIENCE IN ANALYTICS

Summer

0

Primer

Statistical
Methods

1

Foundations

Statistical
Methods

Linear
Algebra

Statistical
Programming
—
Data Wrangling
—
Data
Visualization
—
Teamwork
—
Presentation
Skills
—
Tech Writing

Tools &
Techniques

MBTI / EQ

Coaching

Duration:
40 Weeks
(June-May)

Credit Hours: 30

Full-time Ph.D.
Faculty: 7

Student/Faculty
Ratio: 15:1

Full-time
Support Staff: 10

Graduate
Assistants: 4

INSTITUTE
FOR
ADVANCED
ANALYTICS



Fall

2

3

4

Methods and Applications I

Logistic
Regression

Text
Analytics

Machine
Learning

Data
Ethics

Data
Mining

Survival
Analysis

Time Series &
Forecasting I

Time Series &
Forecasting II

Cloud
Computing I

Advanced R
Programming

Data
Visualization

Exploratory
Analysis
—
Leadership
—
Ethical Data
Storytelling
—
Tech Writing
—
Presentation
Skills
—
Midpoint
Presentation

Advanced
Python

Data
Wrangling
—
Followership
—
Ethical Data
Storytelling
—
Contextual
Mastery

Project
Management
—
Data Security
—
Team-Building

Practicum I

Resumes / Interview Skills / Career Writing / Business Etiquette

Career and Professional Skills Coaching

Spring

5

6

7

Methods and Applications II

Optimization

Fraud Detection

Special
Topics

Financial
Analytics I

Financial
Analytics II

Customer
Analytics I

Customer
Analytics II

Cloud
Computing II

Deep Learning /
NLP

Simulation
and Risk

Bayesian
Statistics

Data Modeling
and
Visualization
—
Problem-Solving
Skills
—
Negotiation
Skills
—
Ethical Data
Storytelling
—
Tech
Writing

Data Modeling
and
Visualization
—
Analytical
Insights
—
Ethical Data
Storytelling
—
Tech
Writing
—
Presentation
Skills

Analytical
Insights
—
Report
Preparation
and
Revisions
—
Ethical Data
Storytelling
—
Tech Writing
—
Presentation
Skills
—
Final
Presentation
Rounds:

1. Technical
2. Faculty
3. Director
4. Sponsor

Practicum II

Emotional Intelligence / Implicit Bias / Social Media

Career and Professional Skills Coaching