MSc in Big Data Technology – Course Schedule

Students are required to complete a total of 30 credits of coursework, including 12 credits of core courses and 18 credits of elective courses. Subject to approval, students may take a maximum of 6 credits of courses from the Master of Science in Information Technology.

**Tentative course offering schedule:**

**2020-21 Fall Term**
- MSBD 5001 Foundations of Data Analytics*
- MSBD 5003 Big Data Computing*
- MSBD 5006 Quantitative Analysis of Financial Time Series
- MSBD 5007 Optimization and Matrix Computation
- MSBD 5008 Introduction to Social Computing
- MSBD 5011 Advanced Statistics: Theory and Applications
- MSBD 5012 Machine Learning
- MSBD 5015 Artificial Intelligence
- MSBD 6000I Text Mining
- MSBD 5010 Image Processing and Analysis

**2020-21 Spring Term**
- MSBD 5002 Data Mining*
- MSBD 5004 Math Methods for Data Analysis*
- MSBD 5005 Data Visualization
- MSBD 5009 Parallel Programming
- MSBD 5013 Statistical Prediction
- MSBD 6000D Intro to Blockchain Technology
- MSBD 6000E Intro to Financial Technology
- MSBD 6000G Deep Learning Meets CompVision
- MSBD 6000H Natural Language Processing

*Core course

Courses are offered subject to needs and availability.

For course details, please refer to:

[Course Catalog](#)