



MASTER OF SCIENCE IN APPLIED DATA SCIENCE DEGREE PLAN

PROGRAM OF STUDY

DEGREE REQUIREMENTS:

<u>Course</u>		<u>Credits</u>
MSDS 5X01	Programming for Data Science	0
MSDS 5X02	Statistics for Data Science	0
MSDS 5311	Introduction to Analytics	3
MSDS 5315	Databases and Data Management	3
MSDS 6311	Big Data Analytics	3
MSDS 5321	Data Science Research Methods	3
MSDS 5312	Data Visualization	3
MSDS 6331	Machine Learning	3
MSDS 5350	Statistical Models	3
MSDS 5361	Data and Social Issues	3
MSDS 6381	Practicum I	3
MSDS 6382	Practicum II	3
Total		30

FULL-TIME (9 HOURS/SEMESTER)

SEMESTER 1 (FALL)

MSDS 5311	Introduction to Data Science/Analytics
MSDS 5315	Databases and Data Management * Domain Knowledge Course

SEMESTER 2 (SPRING)

MSDS 6311	Big Data Analytics
MSDS 5321	Data Science Research Methods
MSDS 5312	Data Visualization

SEMESTER 3 (FALL)

MSDS 6331	Machine Learning
MSDS 5350	Statistical Models
MSDS 638	Practicum I

SEMESTER 4 (SPRING)

MSDS 5361	Data and Social Issues * Domain Knowledge Course
MSDS 6382	Practicum II * Course is not required for MSDS degree

PART-TIME (6 HRS/SEMESTER)

SEMESTER 1 (FALL)

MSDS 5311	Introduction to Data Science/Analytics
MSDS 5315	Databases and Data Management

SEMESTER 2 (SPRING)

MSDS 6311	Big Data Analytics
MSDS 5321	Data Science Research Methods

SEMESTER 3 (FALL)

MSDS 6331	Machine Learning
MSDS 5350	Statistical Models

SEMESTER 4 (SPRING)

MSDS 5312	Data Visualization
MSDS 5361	Data and Social Issues

SEMESTER 5 (FALL)

MSDS 6381	Practicum I
-----------	-------------

SEMESTER 6 (SPRING)

MSDS 6382	Practicum II
-----------	--------------

PROFICIENCY TRACK, PART-TIME

SEMESTER 1 (FALL)

MSDS 5311	Introduction to Data Science/Analytics
MSDS 5X02	Statistics for Data Science

SEMESTER 2 (SPRING)

MSDS 5321	Data Science Research Methods
MSDS 5X01	Programming for Data Science

SEMESTER 3 (FALL)

MSDS 5315	Databases and Data Management
MSDS 5350	Statistical Models

SEMESTER 4 (SPRING)

MSDS 6311	Big Data Analytics
MSDS 5312	Data Visualization

SEMESTER 5 (FALL)

MSDS 6331	Machine Learning
MSDS 6381	Practicum I

SEMESTER 6 (SPRING)

MSDS 5361	Data and Social Issues
MSDS 6382	Practicum II