## Online Master of Science in Analytics (36 hours) Curriculum Grid

INTERDISCIPLINARY CORE		
BASIC (9 hours) (all required unless an opt-out waiver is approved)		
<b>CSE 6040:</b> Computing for Data Analysis	YE 6501: Intro to Analytics Modeling MGT	8803/6754: Business Fundamentals for Analytics
ADVANCED (6 hours)		
CSE 6242:     Data and Visual Analytics     MGT 6203:     Data Analytics in Business		
OPERATIONS RESEARCH AND STATISTICS ELECTIVES (9 hours)		
STATISTICS ELECTIVES (2 courses required)	OPERATIONS RESEARCH ELECTIVES (1 course required)	OPT-OUT ELECTIVES
ISYE 6402: Time Series Analysis ISYE 6414: Regression Analysis ISYE 6420: Bayesian Statistics ISYE 6740: Computational Data Analysis* ISYE 7406: Data Mining and Statistical Learning ISYE 8803: High-Dimensional Data Analytics	ISYE 6644: Simulation ISYE 6650: Probabilistic Models ISYE 6669: Deterministic Optimization	<ul> <li>Any non-required elective</li> <li>Opt-Out elective does not have to align with the Course Prefix, i.e. CSE, ISYE, MGT</li> </ul>
TRACKS AND ELECTIVES (6 hours) (2 courses required from 1 track)		
ANALYTICAL TOOLS	BUSINESS ANALYTICS	COMPUTATIONAL DATA ANALYTICS
CS 7280: Network Science ISYE 6402: Time Series Analysis ISYE 6414: Regression Analysis ISYE 6420: Bayesian Statistics ISYE 6644: Simulation ISYE 6650: Probabilistic Models ISYE 6669: Deterministic Optimization ISYE 6740: Computational Data Analysis * ISYE 7406: Data Mining and Statistical Learning ISYE 8803: High-Dimensional Data Analytics	<ul> <li>MGT 6059: Emerging Technologies (delivered as 7-week course)</li> <li>MGT 6311: Digital Marketing</li> <li>MGT 6655: Business Data Preparation &amp; Visualization (delivered as 7-week course)</li> <li>MGT 6727: Privacy for Professionals</li> <li>MGT 8813: Financial Modeling</li> <li>MGT 8823: Data Analysis for Continuous Improvement</li> <li>MGT 8833: Analysis of Unstructured Data (delivered as 7-week course)</li> <li>PUBP 6725: Information Security Policies and Strategies</li> </ul>	CS 6400: Database Systems CS 6601: Artificial Intelligence CS 6750: Human Computer Interaction CS 7280: Network Science CS 7637: Knowledge-Based Al CS 7642: Reinforcement Learning CS 7643: Deep Learning CS 7646: Machine Learning for Trading CSE 6250: Big Data in Healthcare CSE 6742: Modeling, Simulation & Military Gaming CSE 8803: Applied Natural Language Processing ISYE 6740: Computational Data Analysis* MGT 8833: Analysis of Unstructured Data (delivered as 7-week course)

## **PRACTICAL EXPERIENCE (6 hours)**

(prerequisites include a minimum of 8 courses, including the advanced core prior to enrollment, and a permit)

CSE/ISYE/MGT 6748: Applied Analytics Practicum

All courses are 3 credit hours, apart from the 6 credit hour practicum Courses are subject to change

\*Required for the Computational Data Analytics track

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