MASTER OF SCIENCE IN BUSINESS ANALYTICS		
Effective September 2018		
(30 - 33 Credits / 10 - 11 Courses)		
Program Foundation Course		
(3 Credits / 1 Course)		
Course	**Title**	**Prerequisite**
GR 521	Managerial Statistics	None
Required Analytics Courses		
(21 Credits / 7 Courses)		
Course	**Title**	**Prerequisite**
CS 605	Data Management and SQL for Analytics	None
IPM 652	Managing with Analytics	None
MA 610	Optimization and Simulation for Business Decisions	GR 521
MA 611	Time Series Analysis	ST 625
MA 710	Data Mining	ST 635
ST 625	Quantitative Analysis for Business	GR 521
ST 635	Intermediate Statistical Modeling for Business	ST 625
Elective Courses		
(9 Credits / 3 Courses)		
Select any 3 courses from the following electives.		
Course	**Title**	**Prerequisite**
ST 701	Internship in Business Data Analysis	ST 625
MA 705	Data Science	Pre or Co-Req: GR 521
MA 706	Design of Experiments for Business	ST 625
MA 707	Introduction to Machine Learning	ST 635 and MA 705
MA 795	Business Analytics Project Course	ST 635, CS 605 and MA 705
CS 602	Data-Driven Development with Python	None
CS 603	Algorithmic Thinking with Java	None
CS 612	Cloud-Based Enterprise Applications	CS602 and CS605
CS 650	Data Analytics Architectures with Big Data	CS602 and CS605
CS 733	Artificial Intelligence Techniques and Applications	CS602
CS 753	Business Intelligence Methods & Technologies	CS605
EC 611	The Macroeconomics of Financial Markets	GR522 and (GR525 or FI625)
EC 631	Market Structure and Firm Strategy	FI 625 or GR525
FI 623	Investments	None
FI 635	Fixed Income Valuation and Strategies	Pre or Co-Req: FI623
FI 640	Equity Valuation	FI623
FI 645	Derivatives	Pre or Co-Req: FI623
GR 602	Business Process Management	IPM Department Chair Permission
HF 730	Visualizing Information	None
IPM 723	Information Security, Control and Ethics	None
IPM 755	Special Topics in Information Process Management	Varies with topic
MK 711	Marketing Research & Analysis	Pre or Co-Req: GR521 and GR523
MK 725	E-Marketing	GR523
MK 726	Customer Data Analysis and Relationship Marketing	GR523
MK 758	Enhancing Creativity	None
MG 632	Managing Effective Work Teams	None
MG 635	Negotiating	None
MG 645	Leading Change	None

Academic Planner: Master of Science in Business Analytics

This worksheet is intended to help you plan your course enrollments to be sure that they align with the Master of Science in Business Analytics curriculum. Use this worksheet along with Degree Works to track your program completion.

Please note in order to graduate students must:

Complete all degree requirements within five years
Earn a minimum of 2.7 cumulative GPA

Advising Guidance:
Only foundation courses may be waived. Insert a "W" under the Waiver/Substitution column.
- All course prerequisites must be satisfied. Please note that the stated prerequisites of a course may also have a prerequisite that must be satisfied.
- GR500 and GR600 level courses are designated on the course schedule as "D", "P", or "AL". The "D" section is reserved for students whose primary degree is Full-Time MBA and the "P" sections are reserved for all other MS and Part-Time MBA students. The "AL" section is reserved for Accelerated Online MBA students with a limited number of seats open to students in other programs.
- Refer to the Typically Offered Course Guide to help you plan your course selections.

Name: _____   Matriculation Date: _____
Bentley ID: _____   Anticipated Completion Date: _____

Course Number & Title	Credits	Summer	Fall	Spring	Waiver/ Substitution
Program Foundation Courses (3 Credits)					
GR 521 Managerial Statistics					
Required Analytics Courses (15 Credits)					
CS 605 Data Management and SQL for Analytics	3				
IPM 652 Managing with Analytics	3				
MA 610 Optimization and Simulation for Business Decisions	3				
MA 611 Time Series Analysis	3				
MA 710 Data Mining	3				
ST 625 Quantitative Analysis for Business	3				
ST 635 Intermediate Statistical Modeling for Business	3				
Elective Courses (9 Credits)					
	3				
	3				
	3				
Total Credits:					

Notes: