MASTER OF SCIENCE IN BUSINESS ANALYTICS *Effective September 2025* (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 & SQL for Analytics	None
CS 655	Managing with Analytics	None
MA 610	Optimization & 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)		
Choose 3 courses from the list of electives below. While mixing electives between clusters is permitted, choosing courses entirely from within one elective cluster is recommended to develop area expertise. Graduate courses not listed may not be used as electives without the approval of the program director.		
Course	**Title**	**Prerequisite**
ST 701	Internship in Business Data Analysis	ST 625
MA 795	Business Analytics Project Course	ST 635, CS 605 & MA 705
MA 799	Experimental Course in MA	Varies
Data Science		
CS 602	Data-Driven Development with Python	None
CS 603	Algorithmic Thinking with Java	None
CS 612	Cloud-Based Enterprise Applications	CS 602 & CS 605
CS 650	Data Analytics Architectures with Big Data	CS 602 & CS 605
CS 753	Business Intelligence Methods & Technologies	CS 605
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	Pre or Co-Req: ST 635 Pre-Req: MA 705 or CS 602
Finance		
EC 611	The Macroeconomics of Financial Markets	GR 522 & (GR 525 or FI 625)
FI 623	Investments	None
FI 635	Fixed Income Valuation & Strategies	Pre or Co-Req: FI 623
FI 640	Equity Valuation	FI 623
FI 645	Derivatives	Pre or Co-Req: FI 623
Information Management		
CS 725	Information Security, Control & Ethics	None
GR 602	Business Process Management	CS Department Chair Permission
HF 730	Visualizing Information	HFID Program Director Permission
Management		
MG 632	Leading Effective Work Teams	None

MG 635	Negotiating	None
MG 645	Leading Change	None
Marketing		
MK 711	Marketing Research & Analysis	Pre or Co-Req: GR 521 & GR 523
MK 725	E-Marketing	GR 523
MK 726	Customer Data Analysis & Relationship Marketing	Pre- or Co- Req: GR 523
MK 758	Enhancing Creativity	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.
- MA courses are only offered in the fall and spring semesters. Be sure to check the Graduate Catalogue for typical course offerings and pay close attention to course sequencing to stay on track with your enrollment each semester. Shaded blocks indicated that the course in not offered in the summer.
- Students must complete all required prerequisites before taking a course, including any prerequisite sequences. For example:
    - GR 521 -> ST 625 -> ST 635 -> MA 710

Name: Matriculation Date:

Bentley ID: Anticipated Completion Date:

Course Number & Title	Credits	Summer	Fall	Spring	Waiver
Program Foundation Courses (3 Credits / 1 Course)					
GR 521 Managerial Statistics	3				
Required Analytics Courses (21 Credits / 7 Courses)					
CS 605 Data Management & SQL for Analytics	3				
CS 655 Managing with Analytics	3				
MA 610 Optimization & 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 Courses)					
1.	3				
2.	3				
3.	3				
Total Credits:					

Notes: