

**MASTER OF SCIENCE IN BUSINESS ANALYTICS***Effective September 2024***(30 - 33 Credits / 10 - 11 Courses)****Program Foundation Course****(3 Credits / 1 Course)**

<b><u>Course</u></b>	<b><u>Title</u></b>	<b><u>Prerequisite</u></b>
GR 521	Managerial Statistics	None

**Required Analytics Courses****(21 Credits / 7 Courses)**

<b><u>Course</u></b>	<b><u>Title</u></b>	<b><u>Prerequisite</u></b>
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)**

Select any 3 courses from the following electives:

<b><u>Course</u></b>	<b><u>Title</u></b>	<b><u>Prerequisite</u></b>
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	Pre or Co-Req: ST 635 Pre-Req: MA 705 or CS 602
MA 795	Business Analytics Project Course	ST 635, CS 605 & MA 705
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 725	Information Security, Control & Ethics	None
CS 733	Artificial Intelligence Techniques & Applications	CS 602
CS 753	Business Intelligence Methods & Technologies	CS 605

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	FI623
FI 645	Derivatives	Pre or Co-Req: FI 623
GR 602	Business Process Management	CS Department Chair Permission
HF 730	Visualizing Information	Program Director Permission
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
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.
- Refer to the [Graduate Catalog](#) for guidance about when classes are typically offered.

Name:

Matriculation Date:

Bentley ID:

Anticipated Completion Date:

Course Number & Title	Credits	Summer	Fall	Spring	Waiver/Substitution
<b>Program Foundation Courses (3 Credits / 1 Course)</b>					
GR 521 Managerial Statistics	3				
<b>Required Analytics Courses (21 Credits / 7 Courses)</b>					
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				
<b>Elective Courses (9 Credits / 3 Courses)</b>					
1.	3				
2.	3				
3.	3				
<b>Total Credits:</b>					

Notes: