

# STEM Master of Business Administration Business Analytics Major

This worksheet is intended to help you plan your course enrollments to be sure that they align with the STEM Master Business Administration Business Analytics Major curriculum. Use this worksheet along with Degree Works to track your progress toward 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:

- Students must complete all required prerequisites before taking a course, including any prerequisite sequences. For example:
  - ST 635: Requires GR 521 → ST 62
  - MA 705: Pre or Co requisites GR 521
  - MA 707: Requires MA 705 and ST 635
- 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.
- Only foundation courses may be waived. Students may be waived from 4 Foundation Courses without being required to add electives. If 5 foundation courses are waived, students must take one additional course from Business Analytics Major electives.
- Refer to the [Graduate Catalogue](#) for guidance about when classes are typically offered.

Course	Title	Prerequisite
<b>Total</b>		36 - 48 credits · 12 - 15 courses
<b>Foundation Courses *</b>		0-15 credits · 0-5 courses
GR 521	Managerial Statistics	None
GR 522	Economic Environment of the Firm	None
GR 523	Marketing Management	None
GR 524	Accounting for Decision Making	None
GR 525	Financial Statement Analysis for Decision Making	GR 524 or AC 611

\* Students may be waived from 3 Foundation Courses without being required to add electives. If 4 Foundation Courses are waived, 1 added elective is required. If 5 Foundation Courses are waived, 2 added electives are required.

<b>Core Courses</b>		18 credits · 6 courses
CS 605	Data Management & SQL for Analytics	None
GR 601	Strategic IT Alignment	All foundation courses
GR 602	Business Process Management	All foundation courses
GR 603	Leading Responsibly	None
GR 604	Global Strategy	All foundation courses
GR 645	Law, Ethics & Social Responsibility	None

**Business Analytics Major Courses \***

15 credits · 5 courses

ST 625	Quantitative Analysis for Business	GR 521
ST 635	Intermediate Statistical Modeling for Business	ST 625
MA 610	Optimization & Simulation for Business Decisions	GR 521
MA 705	Data Science	Pre or Co-req: GR 521
MA 707	Machine Learning	Pre or Co-req: ST 635 Pre-req: MA705 or CS 602 or Instructor permission

\* Students must complete all required prerequisites before taking a course, including any prerequisite sequences.

- ST 635: Requires GR 521 → ST 625
- MA 705: Pre or co requires GR 521
- MA 707: Requires MA 705 and ST 635

**Elective Courses \***

3 credits · 1 course

MA 611	Time Series Analysis	ST 625
MA 706	Design of Experiments for Business	ST 625
CS 753	Business Intelligence Methods & Technologies	CS 605
ST 701*	Internship in Business Data Analysis	ST 625

\* ST 701 must be approved in advance by Business Analytics major advisor and internship advisor to ensure full STEM coverage.

# STEM Master of Business Administration Business Analytics Major

Name:

Matriculation Date:

Bentley ID:

Anticipated Completion Date:

Course Number & Title	Cr.	Summer	Fall	Spring	Note
<b>Foundation Courses</b>					0-15 credits · 0-5 courses
1. GR 521 Managerial Statistics	3				
2. GR 522 Economic Environment of the Firm	3				
3. GR 523 Marketing Management	3				
4. GR 524 Accounting for Decision Making	3				
5. GR 525 Financial Statement Analysis for Decision Making	3				
<b>Elective Course Due to Waivers (ONLY if waived from 5 Foundation Courses)</b>					3 credit · 1 course
1.	3				
<b>Core Courses</b>					18 credits · 6 courses
1. CS 605 Data Management & SQL for Analytics	3				
2. GR 601 Strategic IT Alignment	3				
3. GR 602 Business Process Management	3				
4. GR 603 Leading Responsibly	3				
5. GR 604 Global Strategy	3				
6. GR 645 Law, Ethics & Social Responsibility	3				
<b>Business Analytics Major Courses</b>					12 credits · 4 courses
1. ST 625 Quantitative Analysis for Business	3				
2. ST 635 Intermediate Statistical Modeling for Business	3				
3. MA 610 Optimization & Simulation for Business Decisions	3				
4. MA 705 Data Science	3				
5. MA 707 Machine Learning	3				
<b>Total Credits</b>					

Note: