

## GDDA

MMSc students interested in the GDDA, must complete:

MSCI 603	MSCI 718
MSCI 605	MSCI 623
MSCI 609	MSCI 719
MSCI 607	+ One <i>pre-approved</i> elective

Below is a list of courses, the department has reviewed that have been considered and approved to count towards the Graduate Diploma in Data Analytics.

The department has agreed, that if you complete one of the courses listed below successfully it can count towards the GDDA.

If you find a course not listed, you are required to submit the pre-approval request (form found below) to confirm it's an approved GDDA course before you enrol in the course in quest. If it is outside the department you should include the calendar course description and outline (if possible) with the form submission. You can contact the course instructor directly for any possible outlines you they may have.

### MSCI

- 630 Human Computer Interaction
- 641 text analytics
- 709 Logistics & Supply Chain Management
- 712 Decision Analysis under Uncertainty
- 734 Network Models and Applications

Outside the department: Please remember that the MMSc degree requirements allow for only one (1) course to be completed outside the department. If you complete one of the following courses for the GDDA, any additional courses you complete outside Management Sciences will need to be counted as extra.

### CS

- 631 Data-Intensive Distributed Analytics
- 638 Principles of Data Management and Use
- 648 Database System Implementation
- 680 Introduction to Machine Learning
- 685 Machine Learning: Statistical and Computational Foundations
- 686 Introduction to Artificial Intelligence

### ECE

- 656 Database Systems

ECE 608 - Quantitative Analysis in Biomedical Engg

## STAT

- 830 Experimental Design
- 831 Generalized Linear Models and Applications
- 840 Computational Inference
- 841 Statistical Learning - Classification
- 842 Data Visualization
- 844 Statistical Learning – Function Estimation
- 845 Statistical Concepts for Data Science
- 847 Exploratory Data Analysis
- 854 Sampling Theory And Practice

## SYDE

- 631 Time Series Modelling

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# Management Sciences

## Graduate Studies

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### Elective Course Pre-Approval Form

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#### Graduate Diploma in Data Analytics (GDDA)

Use this form to request approval of an elective course for the GDDA

Students who wish to obtain the GDDA should complete the three GDDA designated elective courses and one pre-approved elective course within their MSc degree program requirements.

For more details, please review the department GDDA website

<https://uwaterloo.ca/management-sciences/future-graduate-students/graduate-diploma-data-analytics>

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#### Credit course outside Department (MSc, MAsc, PhD)

Use this form to request approval of an elective course outside the department of Management Sciences for credit towards the MSc, MAsc or PhD.

MSc and MAsc students may complete no more than one course outside the department to count as credit towards their graduate degree in Management Sciences. PhD students may complete a maximum of two courses outside the department.

**In all cases, these courses must be approved *prior* to enrollment in the course in quest.**

For more details, please review your department program details at: <https://uwaterloo.ca/management-sciences/programs>

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#### INSTRUCTIONS:

- ✓ **Before** course enrolment in quest, complete sections 1 and 2
  - ✓ Submit completed form(s) to your Graduate Administrator (course outline/ description /rationale may be required)
  - ✓ The Graduate Administrator will forward the form to the Associate Chair, Graduate Studies for approval
  - ✓ The Graduate Administrator will contact you via your @uwaterloo.ca email with the final decision
- This is not an enrollment form***
- ✓ Use quest to enroll in course when term registration opens
  - ✓ If you are unable to enroll via quest, you may need a drop/add form. Please have this completed and *signed by the instructor* before bringing it to the department
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#### SECTION 1: STUDENT INFORMATION

University of Waterloo Student ID # \_\_\_\_\_ Waterloo Email: \_\_\_\_\_

Last Name(s): \_\_\_\_\_ First Name(s): \_\_\_\_\_

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#### SECTION 2: COURSE DETAILS

Effective Term: Spring  Winter  Fall  Year: \_\_\_\_\_

COURSE INFORMATION (please submit a separate form for each course you wish to be considered)

SUBJECT (MSCI, STAT, ECE, etc.)	CATALOG NUMBER (600, 700, etc.)	SECTION Number (001, 081, etc.)	COURSE TITLE (Course may not be taken as "extra" or "audit")	Requesting permission for (MSc/MAsc/PhD credit or GDDA elective)

STUDENT SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

ASSOCIATE CHAIR,  
GRADUATE STUDIES: \_\_\_\_\_

DATE: \_\_\_\_\_