

BDAT 1000 Data Manipulation Techniques

Wednesdays 6:00 pm – 9:00 pm

Course Description:

This course will provide fundamental knowledge, including beginner to advanced level information and topics, on proper data analysis with Power BI.

This course will cover general data ingestion and data cleansing processes as well as proper and important data model and visualization steps, touching on topics including performance, scalability, and best practices. The course will then cover the concept of pure data analysis using the tools and visuals available within Power BI.

This course is aligned to the Microsoft Certified Data Analyst Associate. Please refer the following [link](#) for more details regarding the certification exam.

Resources:

Class Hours: 6pm – 9pm Eastern Time on Wednesdays (September 7th, 2022 – December 14th, 2022)

BDAT1000 Teams Page

Instructor:

Ricardo Lima Roiseman

(Microsoft Certified Trainer)

<https://www.linkedin.com/in/ricardoroiseman>

Evaluation:

Assignments 60% (complete and submit 3 assignments, each with equal weight)

Test 40% (A mid-term and an end-term test with equal weightage)

Contact Information:

Please reach out at Ricardo.roiseman@georgiancollege.ca or send a message on Teams and I will get back to you as soon as possible (within 24 hours).

Schedule of Activities:

WEEK	TOPIC	ASSESSMENT
1 (Sep 7)	Introduction, Get Started with Microsoft Data Analytics	
2 (Sep 14)	Prepare Data in Power BI	
3 (Sep 21)	Cleaning, Transforming, and Loading Data in Power BI	
4 (Sep 28)	Designing a Data Model in Power BI	Assignment 1 due by 23:59 ET, Sep 29, 2022
5 (Oct 5)	Designing a Data Model in Power BI (Continued)	
6 (Oct 12)	Create Model Calculations using DAX in Power BI	
7 (Oct 19)	Create Model Calculations using DAX in Power BI (continued)	
October 25 th - Reading Week - No Class		
9 (Nov 2)	Create Reports	Mid Term due by 23:59 ET, Nov 3, 2022
10 (Nov 9)	Create Reports (continued)	
11 (Nov 16)	Performing Advanced Analytics	Assignment 2 due by 23:59 ET, Nov 17, 2022
12 (Nov 23)	Paginated Reports	
13 (Nov 30)	Power BI Dashboard	
14 (Dec 7)	Final Exam	Final Exam Assignment 3 due by 23:59 ET, Dec 9, 2022
15 (Dec 14)	Row-Level Security / Review Final Exam (optional)	

The sequence and content of this syllabus may change due to unanticipated opportunities or challenges, or to accommodate the learning styles of the students.

Due to extenuating circumstances and to accommodate the need for this program to be offered remotely, there may be some modifications to the evaluation/assessment. This has been approved by the Dean of Technology & Visual Arts (TVA), as directed by the Vice President, Academic.