

BDAT 1000: DATA MANIPULATION TECHNIQUES

Course outlines are reviewed annually as part of continual quality improvement. This course was last updated for the effective term below.

Effective Term

Winter 2022

Full Course Title

Data Manipulation Techniques

Academic Level

Post Graduate

Subject Code

BDAT - PG Big Data Analytics

Course Number

1000

Grade Mode

Numeric

PLAR Applicable

No

Total Hours

42

Course Description

Large, complex, and diverse data sets require manipulation to parse, split, edit and establish correlations between sets. In this course, students examine common methods and tools that can be utilized to efficiently parse, query and display raw data sets. Students learn how to programmatically extract data from a variety of file formats and sources.

Course Content

- Data discovery
- Data aggregation
- Data warehousing
- Using business intelligence tools
- Enterprise reporting
- Applying reporting, analytics, and visualization techniques

Course Evaluation

The passing grade for this course is 60%, evaluation is comprised of:

- Assignments 40%
- Mid-Term Project 20%
- Group Final Project 40%

Tests/examinations/assignments must be written/submitted at the time specified. Requests for adjustments to that schedule must be made before the test/exam/assignment date to the faculty member. Failure to do so will result in a mark of "0", unless an illness/emergency can be proven with appropriate documentation at no cost to the College.

Academic Appeal

Students at Georgian College can appeal the following:

- A mark on an assignment, test, examination or work-integrated learning term
- Missing or incorrect assessment information on a grade report and/or transcript
- A charge of academic misconduct

Note: Students cannot appeal a final grade. It is the academic work that is appealable leading to the final grade i.e. final test, exam or assignment.

Refer to Academic Regulations 9.2 Academic Appeal for further details.

To graduate from graduate certificate level programs, a student must attain a minimum of 60% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester. The passing weighted average for promotion through each semester and to graduate is 60%.

Course Learning Outcomes

Upon successful completion of this course, the student has reliably demonstrated the ability to:

1. collect and manipulate data from different sources;

Evaluation

Introduced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

2. explain how raw data is turned into useable information;

Evaluation

Reinforced

Upon successful completion of this course, the student has reliably demonstrated the ability to:

3. create a data foundation in the form of data warehouse;

Evaluation

Introduced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

4. extract/transform and load data (ETL);

Evaluation

Reinforced

Upon successful completion of this course, the student has reliably demonstrated the ability to:

5. apply data analysis techniques to solve common business problems;

Evaluation

Reinforced

Upon successful completion of this course, the student has reliably demonstrated the ability to:

6. structure data into meaningful information that can be used in presentations or reports.

Evaluation

Introduced
Reinforced
Assessed

Key:1538