

BDAT 1001: INFORMATION ENCODING STANDARDS

Type of Change:

Minor Course Change

Name of Initiator:

C. Lightheart Adding Remote Delivery Schedule type COVID-19

Course Information

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

Effective Term

Fall 2020

Full Course Title

Information Encoding Standards

Preferred Short Title

Information Encoding Standards

Academic Level

Post Graduate

Subject Code

BDAT - PG Big Data Analytics

Course Number

1001

Academic Area

Computer Studies

Ministry Reporting Category

Business

Grade Mode

Numeric

Alternate Grade Modes

Standard Letter

Transfer credit

PLAR Applicable

No

Total Hours

42

Schedule Types

Lab

Combination

Lecture

Remote Delivery

Traditional

Course Description

Information is stored, transmitted and represented in many different forms and file formats. In this course, students evaluate and compare common technologies and standards that are used to encode and transmit information. Students gain hands-on experience selectively migrating and synchronizing data between different systems that can be utilized by a variety of different applications.

Banner prerequisites – for information only

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency
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Course Content

- Data Security / Protection of Privacy
- Data Encoding
- Data Aggregation
- Data Transmission
- CSV, JSON and XML Files
- File Types - Text, Image, Audio and Video file standards

Course Evaluation

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

- Assignments 20%
- Mid-term Exam 40%
- 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. encode and transmit information using common standards such that data can be migrated between different systems or used by different applications;

Evaluation

Introduced
Assessed

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

2. evaluate and compare different technologies and standards that are used to encode and transmit information;

Evaluation

Introduced
Assessed

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

3. recommend different data storage techniques to support data analytics;

Evaluation

Reinforced

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

4. communicate recommendations regarding information encoding procedures and standards to technical and non-technical audiences;

Evaluation

Reinforced
Assessed

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

5. adhere to standards of practice and identify ethical/contractual-based issues regarding data encoding in IT business environments.

Evaluation

Reinforced

Research Ethics Board Designation

Courses that involve minimal risk research involving human subjects require Research Ethics Board (REB) designation. By checking 'yes' below, you are indicating that all faculty teaching this course must obtain course-based research ethics approval.

No

Key: 1539