Master Syllabus

ACCT 671: Managing Data Quality and Integrity

Prerequisites:

- ACCT 661 or ACCT 361 or MIS 310 or demonstrated proficiency in introductory database management theory
- or permission of the program director.

Programs:

- George Mason University Graduate Program

Course Description:

This course provides students with the current techniques used by business professionals to manage and improve data quality for later analysis and use in managerial decision making. The course focuses on the development of the skills required to collect and extract data and validate data integrity. The topics covered include data extraction, data transformation, data cleansing, data classification, and data automation. Further, the course introduces students to the topics of data warehousing and advances their knowledge of data mining techniques.

Course Learning Objectives:

1. Students will understand data characteristics and their relevance.
2. Students will understand how to detect and flag data quality problems and learn techniques to maintain data integrity.
3. Students will master querying skills using SQL.
4. Students will become comfortable with tools that support automated data curation and cleaning.
5. Students will be introduced to current and emerging topics in data management and analysis, such as data warehousing and data mining.
Text and Learning Materials:

1. Materials developed by the instructional faculty and supplemented by materials prepared by the accounting firms and software companies, and other on-line resources.
2. Technology includes relational databases, statistical tools, other analytics software including R, and data cleansing tools used and developed in the accounting profession.

Core Course Topics:

- Intermediate and advanced SQL
- Data cleansing
- Data manipulation
- Data integration techniques
- Data warehouses
- Data mining for business intelligence
- Distributed databases
- Evolving data technologies

Methods of Student Evaluation:

Exams, quizzes, assignments, and an individual term project

Course Grading:

Your grade will be assigned based on the number of points you earn on each assignment. Below is the grading scale.

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<thead>
<tr>
<th>Grade</th>
<th>Total Points</th>
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<tbody>
<tr>
<td>A</td>
<td>90 – 100%</td>
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<tr>
<td>B</td>
<td>80 – 90%</td>
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<tr>
<td>C</td>
<td>70 – 80%</td>
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<td>F</td>
<td>Below 700</td>
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