ISM 671-02: Data Management (Online)

INSTRUCTOR INFORMATION:
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Office hours: By appointment

CATALOG DESCRIPTION:
Fundamental concepts of database management systems, including database design, implementation, and the use of the SQL query language.

STUDENT LEARNING OUTCOMES:
Upon successful completion of this course students will be able to:

1. Model database requirements using the Entity-Relationship diagram;
2. Apply the concepts of normalization in database design;
3. Design and implement a relational database;
4. Address issues related to concurrent data access;
5. Apply methods to address various database security issues;

REQUIRED TEXTS, READINGS, REFERENCES AND INFORMATION SYSTEMS

Textbook

Canvas Learning Management Systems (https://courses.uncg.edu/log-in/)
Course materials, announcements and updates will be posted on Canvas regularly. Students are required to check Canvas daily.

MySQL Database Management System
This will be the primary working environment. Access credentials to the Bryan MySQL server will be provided by the instructor.

iSpartan account
The communications in the course will be done through email. Students are required to check their iSpartan email daily.

TEACHING METHODS AND ASSIGNMENTS FOR ACHIEVING LEARNING OUTCOMES:
This course will be delivered online. Students will be required to read material posted on Canvas and other websites. Students must complete all required readings in a specific time window. To enhance learning both elementary and advanced database issues, techniques and concepts covered in this course, each database topic may be complemented with exercises. Homework
assignments challenge the students to apply the knowledge learned in class.

EVALUATION AND GRADING:

Assignments
SQL programming assignments and database design assignments constitute a major portion of the requirements for this course. Students are required to complete one wiki assignment, three SQL query set assignments on a database and two database design assignments. Each assignment is due at 6pm on the scheduled due date. Assignments turned in late will be assessed a grading penalty. Assignments submitted after the due date may not be accepted but, if they are based on valid excuse, there will be a minimum of a 20% reduction for each day late. Please do not procrastinate on the assignments.

Group Project
Each student is required to join a group to work on a database project. More details about the project will be given during the course.

Midterm and Final Exams
This course has two exams, a midterm exam and a final exam. No makeup examination is offered for any reason. Both exams will be given online. Students are required to take the exam in a 48-hour time window. If a student must miss a midterm exam and has a written verifiable legitimate excuse for the absence, the weight of that the midterm exam may be allocated to the final. The final exam is cumulative.

Grading:
The course grade will be calculated using the following weights:
Assignments........................................30%
Group Project.......................................20%
Midterm Exam.......................................20%
Final Exam..........................................30%
Total..................................................100%

Grading Scale

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<th>Grade</th>
<th>Description</th>
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<tbody>
<tr>
<td>93+</td>
<td>A</td>
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<tr>
<td>90-92</td>
<td>A-</td>
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<tr>
<td>87-89</td>
<td>B+</td>
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<td>83-86</td>
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<td>80-82</td>
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<td>77-79</td>
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ACADEMIC INTEGRITY POLICY:
Students are responsible for becoming familiar with the Academic Integrity Policy in all its aspects and for indicating their knowledge and acceptance of the Policy by signing the Academic Integrity pledge on all major work submitted for the course. Specific information on the Academic Integrity Policy may be found on the UNCG web site at http://academicintegrity.uncg.edu

ATTENDANCE POLICY:
Since it is an online class, no physical class-room attendance is required. It is the student’s responsibility to stay on track with readings and assignments to be successful in the course.