CIS 287 SQL Server

I. **CIS 287 – SQL Server – 3 Semester Hours**

II. **Course Description**
This course will provide students with the technical skill required to install, configure, administer and troubleshoot SQL Server client/server database management system. At the completion of this series students will be able to: identify the features of SQL Server and the responsibilities and challenges in system administration; identify the benefits of integrating SQL Server and setup clients for SQL Server; install and configure SQL Server; manage data storage using database devices and partition data using segments; manage the user accounts; manage user permissions; identify the various task scheduling and alerting abilities of SQL Executive; identify the concepts used in replication and implement replication of data between two SQL Services; identify the types of backup and create backup devices; identify the factors effecting SQL Server performance and the need for monitoring and tuning; locate and troubleshoot problems that occur on the SQL Server.

III. **Prerequisite**

IV. **Textbook**
Textbook: Microsoft SQL 2005 Implementation and Maintenance (70-431)
Publisher: JOHN WILEY & SONS
Author: Microsoft Press

V. **Course Objectives**
1. The student will develop a working knowledge of SQL Server components, structure, and concepts.
2. The student will be able to install and maintain a SQL Server.
3. The student will be able to identify concepts used in replication.

VI. **Course Outline of Topics**
1. The student will develop a working knowledge of SQL Server components, structures, and concepts.
   a. The student will be able to list and describe SQL components. (Datatypes, databases, tables, indexing, views and constraints)
   b. The student will be able to create SQL triggers and permissions
2. The student will be able to install and maintain SQL Server.
   a. The student will be able to install and navigate SQL Server.
   b. The student will be able to backup/restore, maintain and monitor SQL Server.
3. The student will be able to identify concepts used in replication.
   a. The student will be able to distinguish between replication types.
   b. The student will be able to configure replication security, resolve conflict and monitor replication.

VII. **Evaluation and Assessment**
Evaluation and assessment will be determined by the instructor and specified on the instructor's class syllabus. Grades will be based upon following scale: A = 90 – 100%, B = 80 – 89%, C = 70 – 79%, D = 60 – 69%, and F = below 60%.

VIII. **Attendance**
Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class

before poor attendance interferes with the student's ability to achieve the objectives required in the course. Withdrawal from class can affect eligibility for federal financial aid.

IX. **Statement on Discrimination/Harassment**
The College and the Alabama State Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

X. **Americans with Disabilities**
The Rehabilitation Act of 1973 (Section 504) and the Americans with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. The ADA Accommodations Office is in FSC 305 (205-856-7731).