

## Computer Information Department Course Outline

### CISM 2403 Database Management II (On Demand)

#### ***Catalog Description***

This course is a continuation of CISM 1423. This course will cover advance features of database management including data auditing, advanced user permission / management, backup and restore, and mirroring. Emphasis will be given to applying student skills to real world situations

#### ***Prerequisites***

CISM 1423 – Database Management I

#### ***Credit hours/Contact hours/Load hours***

3/3/3

#### ***Target Audience/Transferability***

This course is for students seeking more advanced training and hands-on experience in installing and managing an Enterprise level database.

#### ***Student Learning Outcomes***

The students completing this course will:

- Understand how to troubleshoot data issues.
- Understand the concept of auditing
- Understand backup and restore procedures and policies
- Understand database security
- Understand clustering and database mirroring
- Understand indexes and SQL / database optimization

#### ***Topics***

- Collect and analyze troubleshooting data
- Audit SQL Server instances
- Configure and maintain a back-up and restore strategy
- Implement and maintain indexes
- Import and export data
- Manage logins and server roles
- Manage database permissions
- Manage users and database roles
- Troubleshoot security
- Implement AlwaysOn
- Implement database mirroring

#### ***Forms of Assessment***

Exams  
Quizzes  
Projects

