

**CENTER FOR APPLIED INFORMATION TECHNOLOGY
TOWSON UNIVERSITY**

AIT 735: Case Studies in Database Management Systems

Prerequisite: AIT 732

Course Description: Real-world projects dealing with the issues related to development, management and maintenance of large-scaled database systems; emphasis is on the distributed database systems and related security issues.

Project: A real-world database-extensive system with moderate security requirements will be assigned /selected by each student in this course. Each student will be required to analyze the problem, specify the requirements, design the system/database architecture, and estimate the schedule, cost and resources for the completion of the project.

Learning Objectives:

1. Ability to design and implement distributed database systems
2. Understand the issues involved in managing database systems
3. Understand the security issues concerning distributed database systems
4. Understand and be able to predict cost, schedule and resource requirements for developing and maintaining a large-scaled database system

Suggested Textbooks:

This is a project-based course and would require no specific textbook. Books and reading materials used for AIT 632 and AIT 732 will be the primary reference for this course.

Other references/journals:

1. Connelly, T., Begg, C., *Database Systems: A Practical Approach to Design, Implementation, and Management*, 4th edition, Pearson
2. R. Elmasri, S.B., Navathe, B., *Fundamental of Database Systems*, 4th edition, Cummings
3. Ramakrishnan, R., *Database Management Systems*, McGraw-Hill