

## MASTER SYLLABUS

**Course Number & title:** BUS 472 – Decision Support Systems and Expert Systems  
**Department(s):** Accounting/MIS  
**Credit hours:** 3  
**Prerequisites:** BUS 372 or permission of instructor  
**Fees and charges:** None

**Effective catalog date for this master syllabus:** 2007-2008

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### 1. Catalog description:

An examination of the role of information systems in managerial decision making. The course describes the decision making process and examines how various information systems are used to support this process. Specific topics covered in the course include: decision support systems, business intelligence, and knowledge management.

### 2. Course content:

The course will cover the following topics:

- a. Decision-Making Process
- b. Decision Modeling
- c. Data Warehousing
- d. Data/Text Mining
- e. Expert Systems
- f. Business Intelligence

### 3. Student learning objectives:

Upon completion of the course, students will:

- a. Understand the need for, as well as the benefits and limitations of, decision support systems.
- b. Understand the decision making process and how it is applied to structured, semi-structured, and unstructured decisions.
- c. Be able to use various decision support tools.
- d. Be familiar with business intelligence concepts such as data warehousing, knowledge management, business analytics, etc.

### 4. Student assessment criteria:

Students will be assessed through a combination of lab assignments, exams, and an expert system project.

### 5. Instructional Approach:

The material in this class will be presented primarily through lectures and in-class demonstrations.

**Textbook:** Turban, E., Aronson, J.E., Liang, T., and Sharda, R. Decision Support and Business Intelligence Systems (Eighth Edition), Upper Saddle River, NJ: Prentice Hall, 2007