

SOUTHEAST MISSOURI STATE UNIVERSITY

Date: Fall 2000

Department of Management and MIS

Course No.: MG464

Title of Course: Systems Implementation and Practice

I. Catalog Description and Credit Hours of Course:

A capstone field-experience course that builds on systems analysis and design methodologies for the design and implementation of computer-based information systems. Special emphasis is placed on modern tools and techniques for rapid systems development. (3)

II. Prerequisite(s):

Concurrent Enrollment in Systems Analysis and Design (MG445 or IS445)

III. Purposes or Objectives of the Course:

Upon completion of this course the student should:

- A. have obtained practical experience with working on an information systems development project;
- B. have obtained practical experience working on an information systems development team;
- C. be able to describe modern techniques for rapid systems development;
- D. be able to demonstrate systems development using evolutionary prototypes;
- E. be able to demonstrate a practical understanding of modern input/output/user interface design concepts; and
- F. be able to create functional user documentation.

IV. Expectation of Students:

- A. Students are expected to work in teams to successfully complete the team's IS project.
- B. Students are expected to demonstrate maturity and professionalism in dealing with the project sponsoring organization.
- C. Students are expected to behave in an academically honest manner to preserve the integrity of the classroom and the learning environment.

D. Students are expected to be familiar with the contents of the class outline and other instructions provided by the instructor.

V. Course Content or Outline:

The following outline gives the topics and the approximate number of class periods devoted to the main topics in the course.

- A. Strategic Implications of Information Systems - 3 hours
- B. Review of Systems Analysis and Design (SAD) concepts and techniques - 3 hours
- C. Project Management Concepts in Information Systems - 3 hours
- D. Application Development Processes - 3 hours
- E. Information Systems Project Development - 24 hours
- F. System Testing and Conversion - 3 hours
- G. Documentation Development - 6 hours

VI. Textbook(s) and/or Other Required Materials or Equipment:

Olson, David L. (2001). Introduction to information systems project management. Irwin/McGraw-Hill.

Supplemental Textbooks:

Applegate, Lynda M., McFarlan, F. Warren, & McKenney, James L. (1999). Corporate information systems management (5th ed.). Irwin/McGraw-Hill.

Hoffer, J. A., George, J. F. & Valachich, J. S. (1999). Modern systems analysis & design (2nd ed.). Benjamin Cummings.

VII. Basis for Student Evaluation:

The evaluation of students will be based on:

- A. Quality of participation in class
- B. Performance on a mid-term examination
- C. Performance on final IS development project
- D. Performance on presentation of project to the sponsoring organization