Standard Course Outline

I. General Information

- Course number: IS 595
- Title: Information Systems Project
- Units: 3
- Prerequisites: Graduate Standing, IS 585
- Course Coordinator: Thang Nguyen
- SCO Prepared by: Sophie Lee
- Date prepared/revised: October 11, 2012

II. Catalog Description

Theories and practice in managing large scale information systems projects. Issues include cost estimation, personnel management, requirement analysis, system design methods, quality control of software projects, system validatioan, and configuration management.
Letter grade only (A-F).

III. Curriculum Justification(s)

Achieving information systems development project quality, schedule, and cost goals can be quite challenging. Producing consistent information systems successes requires substantial knowledge and skills in the areas of people, product, process, and technology. This course is designed to enable participants to learn successful field-tested approaches to planning, executing, and managing comprehensive information systems projects. Opportunities are provided for acquiring and practicing software project management, requirements analysis, systems design and prototype construction. Participants are to constantly practice, both inside and outside of class, positive workplace behaviors and supportive teamwork values.

IV. CBA Undergraduate Program Learning Goals:

This course meets the following CBA undergraduate learning goals:

Learning Goal #5 – Business Functions

Students will have advanced understanding of business functions in Information Systems emphasizing on the leadership and management of IS projects

Learning Goal #6 – Quantitative and Technical Skills

Students will have enhanced knowledge in quantitative and technical skills in IS project management.

V. Course Objectives, Measurable Student Learning Outcomes, Evaluation Instruments, and Instructional Strategies for Skill Development

Upon completion, students will be able to

1. grasp the complexity and process in IS projects
2. understand fundamental concepts of project management
3. understand principles in software engineering
4. demonstrate competency in understanding system development methodology
6. demonstrate competency in managing IS projects
7. identify issues and trends in recent IS project advancements

VI. Outline of Subject Matter

Topic 1. Course Introduction
Topic 2. Project Management Foundations
Topic 3. Estimating for Software Projects
Topic 4. Project Scheduling
Topic 5. Risk Management
Topic 6. Software Engineering and Process Models
Topic 7. Agile Development
Topic 8. Modeling Principles
Topic 9. Requirements Analysis
Topic 10. Software Design Concepts
Topic 11. Architectural Design
Topic 12. Component Design
Topic 13. Software quality control
Topic 14. Software testing
Topic 15. Configuration Management

VII. Methods of Instruction

This course should be taught by lectures, hands-on development in teams, and case studies. Instructors should build a solid conceptual foundation on project management and software engineering concepts. Equal emphasize is then used on the management and maintenance of an Information System. The class will work on a software development project in small teams. All class members will be assigned to a team. The deliverables will include a comprehensive project plan, database design, and a working prototype for a moderately complex information system. The team will present their project plan and prototype at the end of the course.

VIII. Extent and Nature of Technology Use

Instructors will choose a popular programming language and development environment as the platform for class project.

IX. Textbooks

The following is a short list of textbooks that are most likely to be used for this course. Instructors may assign one or more of these and/or include other relevant texts/readings. Instructors may be asked to justify the use of old textbooks, if updated texts are available.

Software Engineering, A Practitioner's Approach, 7th Ed, by Roger Pressman, McGraw-Hill, 2010.

X. Instructional Policies Requirements

A. Assessment Criteria

Homework
Students will complete individual homework profiling their competence in various subject matters.

Quizzes and Exams
Students will complete quizzes (optional), mid-term exam (required; at least one), and final exam (required).

Projects
Instructors must assign comprehensive course project that requires problem solving and use of a leading commercial database management system.

Suggested workload and grading:

MidTerm 1	100 pts
MidTerm 2	100 pts
Project	150 pts
Class	100 pt
Project	130 pts (2 deliverables at 15pts each; final project 100 pts)
TOTAL	550 pt

B. Required Statement

In compliance with university policy: Final grades will be based on at least three, and preferably four or more, demonstrations of competence. In no case will the grade on any class tests count for more than one-third of the course grade.

C. Attendance, Withdrawal, Late Assignments

Students are expected to attend courses and turn in assignments on time. Specific attendance and late assignment policies are up to each individual instructor's discretion. The withdrawal policy is the same as that of the university.

D. Disabilities

Students with disabilities are responsible for notifying their instructor as early as possible of their needs for an accommodation of a verified disability. A student with a disability is urged to consult with Disabled Student Services as soon as possible in order to identify possible accommodations to enhance academic success.