

Standard Course Outline IS 699A Information Systems Project

I. General Information

- Course number: IS 699 A
- Title: Information Systems Project
- Units: 2
- Prerequisites: Graduate standing, IS 602
- Course Coordinator: H. Michael Chung
- SCO Prepared by H. Michael Chung
- Date prepared/revised: February 20, 2017

II. Catalog Description

Integration 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 validation, and configuration management. A grade of “B” or better is required for this capstone course. Letter grade only (A-F).

III. Course Justifications

The primary learning objective of this course is to develop a conceptual framework and the analytic skills to understand the variety of management, technology, and funding issues related to constructing a viable business model. The specific learning objectives of this course are as follows:

- **Critical Thinking Skills:** Students will build their critical thinking skills through the managerial decision-making process in developing an information system application. Student will be able to demonstrate these skills through a system/application development proposal and corresponding problem-solving approaches.
- **Interpersonal, Leadership, and Team Skills:** A students will develop his/her interpersonal and collaboration skills in an organization. Students will be able to demonstrate such skills through field interview, business process management, data acquisition, presentations.
- **Business Functions Skills:** Students will be able to understand and demonstrate that successful information system applications are based on the understanding of business functional areas as well as the interaction and integration among them.
- **Quantitative & Technical Skills:** Students will acquire the necessary quantitative and technical skills to analyze and interpret business decisions based on data and information. They will understand their effects on the business system they intend to build. Students will be able to demonstrate these skills through technology forecasting, risk analysis, technology valuation, and impact analysis.

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

A. Outline of Subject Matter and Course Objectives

This is a culminating experience course that applies previous course materials to comprehensive project. Learn how to leverage information technology assets and capabilities; to justify and prioritize corporate information systems portfolio; to evaluate proposed projects based on organizational directions, requirements, and resources; to develop information systems application by applying the skills and knowledge learned; and to examine business processes and data in an organization, among others. IS

699A is the first part of IS 699. *In IS 699A, students will identify a real work problem, analyze the issues, develop solution alternatives and their approaches, finalize the solution, and draft the proposal among others.*

B. Measurable Outcome

Students who pass IS 699 must demonstrate the following:

- ability to develop an information systems proposal based on the organization’s information systems portfolio, strategic directions, and application requirements.
- ability to develop and manage corporate information system applications.
- ability to understand and explain current information technologies, business functional area applications, and industry trends.
- ability to evaluate and assess the impact of information systems applications on business functional areas.

C. Evaluation Instrument

Specific assignments will vary by instructor, but typical assignments include hands-on, projects, and presentations.

D. Instructional Strategies:

The instruction should include field interviews, data collection, and hand-on exercises.

The instruction should cover function area applications, process management, data acquisition as well as data analysis.

V. Outline of Subject Matter

A. Suggested Course Schedule/Topics (for the entire 699 A and B)

Week	Topics	Coverage (IS 699A or IS 699B)
1	Introduction and Overview	A
2	Diagnosing Business and Information System Issues	A
3	Problem Solving and Project Management	A
4	Collaboration and Contract Agreement	A, B
5	Information Systems Portfolio Management	A

6	Information Systems Maturity Model	A
7	Process and Data Management	A
8	Functional Area Analytics and ERP	A
9	Cyber Security, Assurance, and Recovery	A, B
10	IT Architecture and Infrastructure	A, B
11	Human Computer Interface	A
12	Systems Integration	B
13	Performance Management	B
14	Presentations	B
15	Exam	A, B

This is a broad outline of topics to be covered. Subject matter and sequence of topics may vary by instructors.

B. Classroom Time to Be Spent.

- Lecture on the topics from Week 1 through Week 13: 30%
- Case studies/project and exercises relate to the main topics: 50%
- Additional materials and demonstrations: 20%

VI. Method of Instruction

A. Instruction Mode.

- Traditional mode of instruction only

B. Classroom Activities.

- Demonstration and computer lab
- Presentations and discussions

C. Extent and Nature of Technology Use

- Extensive usage of computers

VII. Information about Recommended Textbooks/Readings

- Practical Enterprise Software Development Techniques: Tools and Techniques for Large Scale Solutions, Apress (1st edition), 2015, ISBN 978-1484206218.

- Periodicals: CIO Magazine, Computerworld.

VIII. Instructional Policies Requirements

Instructor’s syllabi must contain explicit statements regarding their own policies with regard to plagiarism, withdrawal, absences, etc., which should be consistent with the University policies published in the CSULB Catalog. It is expected that every course will follow University policies on [Attendance \(PS 01-01\)](#), [Course Syllabi \(PS 04-05\)](#), and [Final Course Grades, Grading Procedures, and Final Assessments \(PS 12-03\)](#). If some or all sections of the course are to be taught, in part or entirely, by distance learning, the course must follow the provisions of [Academic Technology and the Mode of Instruction \(PS 03-11\)](#). Instructors should refer to the current [CSULB Catalog](#) and to the [Academic Senate website](#) for campus

guidelines and policy statements as they develop their individual course policies.

All sections of the course will have a syllabus that includes the information required by the syllabi policy adopted by the Academic Senate. Instructors will include information on how students may make up work for excused absences. When class participation is a required part of the course, syllabi will include information on how participation is assessed.

IX. Course Assessment and Grading (Optional but highly recommended for core courses)

A. Description of Assessment

- **Homework:** Students will complete individual homework profiling their competence in various subject matters.
- **Projects:** Instructors are strongly encouraged to assign comprehensive course project that requires problem solving and uses software tools to conduct real-world data analysis.

B. Grading Policies and Procedures.

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.

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. Students will complete a real-world project involving an organization.

C. Course Grade

Component (IS 699A or IS 699B)	Percentage
Project Analysis and Design (A)	30
Infrastructure, Middleware, and Cloud (A,B)	20
Cases and in-class exercises (A)	20

Class Participation (A, B)	20
Final Presentation (B)	10
Total	100

Grade	Required Total Points
A	90% and above
B	80-89.9%
C	70-79.9%
D	60-69.9%
F	Below 60%

X. X. Disabilities and Assistive Technology

The Bob Murphy Access Center (BMAC) provides certification for students with disabilities and helps arrange relevant accommodations: [Bob Murphy Access Center](#). Any student requesting academic accommodations based on a disability is strongly encouraged to register with Disabled Student Services (BMAC) each semester. A letter of verification for approved accommodations can be obtained from BMAC. Please be sure to provide your instructor with BMAC verification of accommodations as early in the semester as possible. The phone number for BMAC is (562) 985 5401. The email address is: bmac@csulb.edu.

In compliance with Accessibility and Faculty Responsibility for the Selection of Instructional Materials (PS 08-11), instructors are responsible for ensuring that their syllabi and instructional materials are accessible to all students.

XI. Consistency of SCO Standards across Sections

All future syllabi will conform to the SCO. The course coordinator should review the SCO and offer advice and/or materials to faculty member new to teaching the course. The course coordinator may offer or require regular review of instructors' course materials as well as anonymous samples of student work.

XII. Additional Resources for Development of Syllabi

- University policy [Course Syllabi and Standard Course Outlines \(PS 11-07\)](#)
- Academic Technology (ATS) [Accessible Syllabus Template](#)
- Faculty Center for Professional Development (FCPD) [Sample Syllabus Template](#)