

UNIVERSITY OF ILLINOIS AT CHICAGO
College of Business Administration

IDS 405 : Business Systems Analysis and Design
(Fall 2006)

Class Time/Location T R 11 - 12:15 (DH 115)

Instructor Dr. Siddhartha Bhattacharyya
UH 2408
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Text Dennis, Alan and Barbara H. Wixom. Systems Analysis and Design 2nd Edition. John Wiley and Sons, 2003.

Objectives

This is a course on the analysis, design, and implementation of information systems. All stages of the systems development life cycle will be considered, with specific focus on analysis and design of business information systems. The course aims at providing a foundation in traditional structured analysis and design techniques, together with an introduction to object-oriented and UML based analysis and design techniques that are increasingly in use today. The basic topics that will be discussed are: lifecycle approaches, feasibility, requirements analysis, techniques for structured analysis, various aspects of system design including system data, behavior and interfaces, testing, and system implementation considerations; concepts in UML and object-orientation will also be examined in relation to these basic topics.

Students will work on a series of assignments covering various activities in the systems analysis and design process. These assignments, based on cases simulating real-life projects, will provide hands-on experience in analyzing and designing computer-based information systems.

Grading Criteria

Exam 1	30%
Exam 2	30%
Assignments	40%

Group Assignments

Students will work in groups to complete a series of case-assignments pertaining to various aspects of systems analysis and design. Students will work in assigned groups of 3 people. Assignment due-dates will be strictly adhered to, with late submissions being subject to a penalty of 20% per day late. Note that for evaluation, correctness and content, as well as presentation style – clarity, format, manner of presentation – are important. Group members will, further, need to provide an evaluation of each other's contribution for each assignment. Contribution of team members may also be assessed from individual meetings with the instructor.

Students are expected to keep up with course related emails, announcements, etc as discussed in class and in the Blackboard course site.

Students are expected to respect and act in accordance with the CBA Honor Code. Please familiarize with Honor code at www.uic.edu/cba/Faculty/academicaffairs/honorcode.html

Schedule

The following is a tentative sequence of topics to be covered. Assigned readings should be completed prior to the next class session.

Information Systems Development: An Introduction
Systems Development Lifecycle and Approaches [Chapter 1]

Requirements determination [Chapter 4]
Workflow Diagrams
Assignment 1

Process Modeling
Data Flow Diagrams [Chapter 6]
Assignment 2

Objects and Classes
Data Modeling [Chapter 7]
E/R Diagrams
Object Relation Modeling
Assignment 3

EXAM 1

Feasibility, Cost-Benefit Analysis [Chapter 2]
Assignment 4

System Design, Physical DFDs [Chapter 8]
Program Design [Chapter 12]
Assignment 5

User Interface design [Chapter 10]

Object Oriented Analysis and Design
Use cases [Chapter 5]
Assignment 6
Object classes and methods [Chapter 16]
Object behavior design, sequence diagrams
Assignment 7

System Implementation, System testing [Chapter 13]
Installation, Conversion [Chapter 14]

EXAM 2

IDS 405 Fall, 2006

Name:

Email:

Major, Undergrad/Grad:

Courses taken (circle): IDS 201, IDS 331, IDS 410, IDS 400, IDS401

Application development skills: (programming languages, scripting tools, etc.)

Software applications:

Specify software tools with a rating of scale of 1-5 (novice – expert)

Would like to learn (generally):

Ideal job:

Expectations of this course (why are you taking this course):

Your strengths:

Your weaknesses

Expected Grade: