

ISMT529 Tentative Course Outline (as of 3 June, 2003)

● Overview

Description: Overview of principles of system development methodologies, focusing on systems analysis and design and use of object-oriented technology (including UML); feasibility and cost-benefit analysis, as well as other related managerial issues. Prerequisite: ISMT 501 or ISMT 502.

Location: Room 4116 - Microsoft .NET Lab

Meeting: 18:30-21:50, Saturdays, 28 June - 16 August, 2003

Required Software: Each student must have access to the *Web*, the *System Architect* software (provided with the textbook), and *Adobe Acrobat Reader* (to read electronic course documents in PDF file format).

You are responsible for gaining proficiency in navigating **Windows** and utilizing its file system on your own. You are also expected to know how to seek online **Help** within each software package.

● Course Instructor

Prof. Scott Serich, Ph.D.

Room: 4434, **email:** serich@ust.hk

Office Hours: by appointment

● Required Textbook

[Systems Analysis and Design Methods, Fifth Edition](#) by Whitten, Bentley, Dittman (McGraw-Hill)

● Policies and Evaluation

Instruction will include lectures, readings, homework assignments, a term project and an exam.

The exam must be taken individually. You will not be permitted to consult any person other than yourself. They will contain multiple choice questions. For each question there will be one and only one most-suitable (correct) answer; you will receive full credit for choosing this answer and zero credit for all others.

The course will adhere to the UST Academic Regulations (<http://publish.ust.hk/cal0203/calendar/requ/cover/index.html>).

You will be assigned to a team to perform some of the homework assignments and the term project. The purpose of this policy is to introduce different perspectives and encourage sharing of ideas with your classmates. However, some of the exam questions will cover concepts and techniques from the homework assignments. So be sure that every team member understands all the material individually.

Your assignments are due at the beginning of the designated class meeting. A prudent risk mitigation strategy is to aim to complete every assignment at least one full day prior to its due date just to be safe.

In addition to the material covered in lectures, you will be responsible for all the material assigned for reading in the textbook. The exam will contain some material that we don't have time to cover explicitly during lecture. So be sure to keep up with the weekly reading assignments.

Week	Topic (Except for first class, readings are due at the beginning of the assigned class)	Assignment (due at beginning of class)
Week 1 28 June, 2003	<ul style="list-style-type: none"> - Course Administration - IS Development: Automated Tools (3) - Systems Analysis (5) - Reqs Discovery & Use Cases (6) Reading: <ul style="list-style-type: none"> - Chapter 3 pages 106-110 - Chapter 5 (SKIP pages 197-202) - Chapter 6 (SKIP pages 224-236) 	FYI: many of the textbook examples are drawn from the <i>Soundstage</i> case appearing at the start of each chapter (in case you want to follow along).
Week 2 5 July	<ul style="list-style-type: none"> - OO Analysis (A) Reading: <ul style="list-style-type: none"> - Modules A and B 	<ul style="list-style-type: none"> - Install <i>System Architect</i> (comes with the textbook) on your own computer and do the online tutorial (under Help) - E-Mail Homework (individual)
Week 3 12 July	<ul style="list-style-type: none"> - Announce teams - OO Design & Modeling (B) - Systems Design (10) Reading: <ul style="list-style-type: none"> - Chapter 10 (SKIP pages 408-415) 	<ul style="list-style-type: none"> - HW1 (individual)
Week 4 19 July	<ul style="list-style-type: none"> - (complete Systems Design) - Data Modeling and Analysis (7) Reading: <ul style="list-style-type: none"> - Chapter 7 	<ul style="list-style-type: none"> - Team Charter (team): Sample Team Charter - HW2 (team)
Week 5 26 July	<ul style="list-style-type: none"> - (complete Data Modeling) - Process Modeling (8) Reading: <ul style="list-style-type: none"> - Chapter 8 	<ul style="list-style-type: none"> - HW3 (team)
Week 6 2 August	<ul style="list-style-type: none"> - (complete Process Modeling) - Application Architecture & Modeling (11) Reading: <ul style="list-style-type: none"> - Chapter 11 (SKIP pages 437-448) 	<ul style="list-style-type: none"> - HW4 (team)
Week 7 9 August	<ul style="list-style-type: none"> - Feasibility Analysis & System Proposal (9) - User Interface Design (15) Reading: <ul style="list-style-type: none"> - Chapter 9 pages 370-380 - Chapter 15 	<ul style="list-style-type: none"> - TERM PROJECT (team)
Week 8 16 August	<ul style="list-style-type: none"> - FINAL EXAM (individual) - closed book 	<ul style="list-style-type: none"> - Study for Final Exam