

**University of Minnesota
Carlson School of Management**

**IDSc 3202
Analysis and Modeling for Business Systems Development
Spring 2003**

Tentative Schedule (Changes will be announced in class)

Date	Topic Description	Readings *	Due
W1w Jan 22	Course introduction IS development and project management challenges Roles and profiles of the systems analyst	HGV ch1, 2	
W2m Jan 27	Systems concepts The building blocks of information systems Systems development process and methodologies	HGV ch1, 2	
W2w Jan 29	IS development project management lifecycle Identifying and selecting IS development projects	HGV ch3, 5	
W3m Feb 3	Project initiation and planning Project planning techniques	HGV ch6	Forming groups
W3w Feb 5	Project tracking and control Earned value analysis	HGV ch6	
W4m Feb 10	Using Microsoft Project for project planning, tracking and control		
W4w Feb 12	Determining system requirement Information gathering techniques Joint Application Development concepts	HGV ch7	
W5m Feb 17	Determining system requirement Information gathering techniques Joint Application Development concepts	HGV ch7	Individual assignment 1
W5w Feb 19	Structuring system requirement - Process modeling concepts and practices	HGV ch8	
W6m Feb 24	Structuring system requirement - Process modeling concepts and practices	HGV ch8	
W6w Feb 26	Structuring system requirement - Logic modeling concepts and practices	HGV ch9	
W7m Mar 3	Structuring system requirement: Data modeling Database concepts	PA Ch. 1 HGV Ch. 10	Team project report 1
W7w Mar 5	Structuring system requirement: Data modeling Relational model: Introduction and QBE	PA Ch. 2 HGV Ch. 10	
W8m Mar 10	Midterm review		Individual assignment 2
W8w Mar 12	Midterm exam		
	Spring Break (Mar 17 – 21)		
W9m Mar 24	Logical database design - Normalization - Converting ERDs into relational model	HGV 12 PA Ch.5, 6	
W9w Mar 26	Structured Query Language (SQL)	PA Ch. 3	
W10m Mar 31	Physical database design	PA Ch. 6 HGV Ch. 12	
W10w	Database Management System (DBMS)	PA Ch. 7	

Apr 2			
W11m Apr 7	Advanced topics in relational model	PA Ch. 4	Team project report 2
W11w Apr 9	Designing forms and reports User interface design	HGV Ch. 13, 14	
W12m Apr 14	System implementation and maintenance	HGV Ch. 17, 18	Individual assignment 3
W12w Apr 16	Introduction to UML Object-oriented modeling concepts	HGV Ch. 20	
W13m Apr 21	Use Case Modeling	HGV Ch. 20	
W13w Apr 23	Class diagrams	HGV Ch. 20	
W14m Apr 28	Interaction diagrams	HGV Ch. 20	Individual assignment 4
W14w Apr 30	Discussion of team project presentation and final exam review		
W15m May 5	<i>Student Final Project Presentations</i>		
W15w May 7	<i>Student Final Project Presentations</i>		
W16m May 12	Final exam		Final project report

Note * - HGV refers to Jeffrey A. Hoffer, Joey F. George and Joseph S. Valacich. *Modern Systems Analysis and Design*.
- PA refers to Philip J. Pratt and Joseph J. Adamski. *Concepts of Database Management*.