



Data Modeling and Database Design

X402.5



Course Objectives

At the completion of the course, the student will be able to:

- Explain how data modeling and data mapping are used to represent expert business knowledge
- Incorporate the details of data entities, attributes and relationships (associations) into data models that represent management information needs
- Transform data models into physical database designs suitable for transactional databases as well as data warehouse (analysis) databases.



Textbook

Data Modeling, A Beginner's Guide

Andrew J. (Andy) Oppel

First Edition, 2010

McGraw-Hill Professional

ISBN 978-0-07-162398-8



Software Requirements

- There are no specific requirements, however a data modeling tool such as ERwin (Community Edition) or Oracle SQL Developer Data Modeler; or a general drawing tool such as Microsoft Visio or yEd (a freeware tool).

Grading

Assignment 1	25%
Assignment 2	25%
Assignment 3	25%
Class Participation	25%



Web Site

<http://www.andyoppel.com/X4025>

- Outlines (Syllabi)
- Assignment Instructions and Files
- Assignment Solutions (Password required)
- Lecture Notes (Powerpoint slides)



Instructor Information

- Andy Oppel
 - Technical Trainer, GoodData (effective 3/21/2014)
 - UC Extension Instructor (over 25 years)
- Contact Information
 - E-mail: aoppel@berkeley.edu
 - Assignments: paper in class
or e-mail to above address
 - Home Office Phone: 510-864-2299



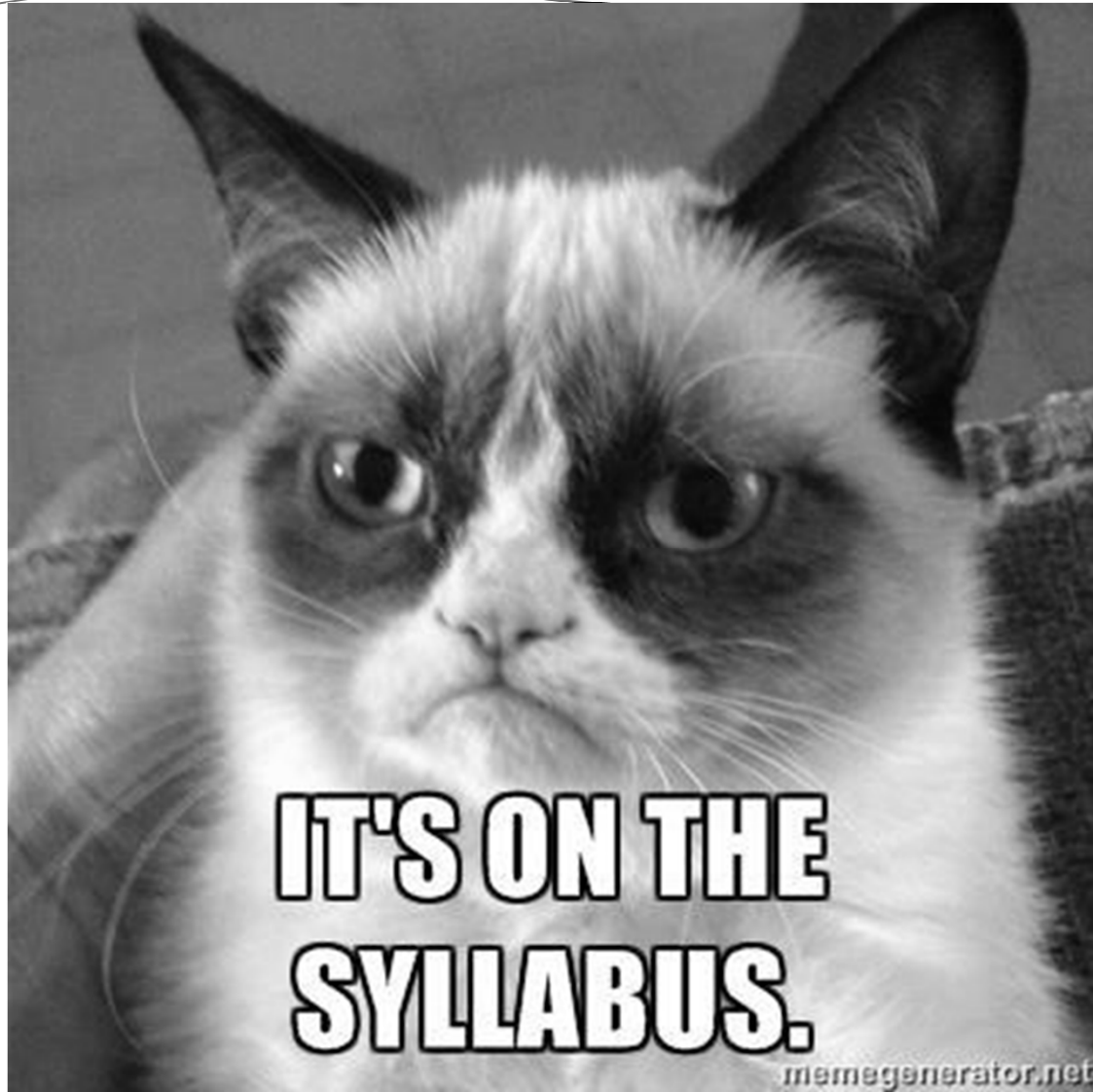
Ground Rules

- Questions are encouraged at any time: There are no stupid questions.
- Please don't call/write to report missing a class; attendance is your responsibility and lecture slides will be available online.
- Please keep calls at work to a minimum.
- Please read and follow the syllabus.



Academic Integrity

- All members of the UC Berkeley Extension community are expected to act with honesty, integrity, and respect for others. For further information, please refer to:
 - **Tips for Maintaining My Academic Integrity:**
http://extension.berkeley.edu/upload/academic_integrity.pdf
 - **UC Berkeley Extension Code of Student Conduct:**
<http://extension.berkeley.edu/upload/studentconduct.pdf>



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SYLLABUS.**

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