



Instructor Information

Instructor: Aaron French

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Course Description

The primary focus of this course is on Data Warehousing and its applications to business intelligence. We will concentrate on topics like: requirements gathering for data warehousing, data warehouse architecture, dimensional model design for data warehousing, physical database design for data warehousing, extracting, transforming, and loading strategies, introduction to business intelligence, design and development of business intelligence applications, expansion and support of a data warehouse.

Topics Covered

What is Data Warehousing, Inmon vs. Kimball, dimensional modeling, ETL technologies, fact tables, OLAP, business intelligence, and big data.

Required Textbook

The Datawarehouse Toolkit Third Edition, by Ralph Kimball and Margy Ross, 2013.
ISBN: 978-1-118-53080-1.

Useful References

Kimball Group's Site: <http://www.kimballgroup.com/category/design-tips/>

SQL Server 2012: [http://technet.microsoft.com/en-us/library/bb418433\(v=sql.10\).aspx](http://technet.microsoft.com/en-us/library/bb418433(v=sql.10).aspx)

BI for SQL Server 2012: [http://msdn.microsoft.com/en-us/library/ee229548\(v=sql.10\).aspx](http://msdn.microsoft.com/en-us/library/ee229548(v=sql.10).aspx)

Grading

Grades will be based on the accumulation of points throughout the semester. Each assignment, test, or group task will be awarded points determined at the time it is assigned. The number of points earned divided by the total points assigned will result in your final grade.

Percent	Grade	Percent	Grade	Percent	Grade
96% - 100%	A+	86% - 89%	B+	76% - 79%	C+
93% - 95%	A	83% - 85%	B	73% - 75%	C
90% - 92%	A-	80% - 82%	B-	70% - 72%	C-

Participation

This is a graduate level course with professional students. Effective communication and class discussions will make the course more interesting, productive and useful. Participation in this course will be worth 100 points on your total score at the end of the semester.

Attendance and Tardiness

1. You are expected to complete work on schedule. Late assignments will not be accepted.
2. You are expected to be in class and on time. If you cannot meet this requirement let me know in advance. You will be responsible for getting missed material from a classmate.
3. You cannot participate if you don't attend class.

Weekly Schedule – Spring 2015

<i>Week</i>	<i>Date</i>	<i>Topic</i>
1	January 13	Introduction Review the relational model Limitations of the relational model
2	January 20	Introduction to data warehouse...overview Requirements analysis & planning Project Management <i>Read: Chapter 1</i>
3	January 27	Master Data Management Meta data Data Governance Inmon vs. Kimball
4	February 3	Introduction to Dimensional Models <i>Read: Chapter 2</i>
5	February 10	Designing Dimensional Models
6	February 17	Developing the Relational Data Warehouse
7	February 24	ETL & SSIS
8	March 3	Midterm Exam
X	March 10	Spring Break
9	March 17	Data Marts
10	March 24	OLAP & Business Intelligence
11	March 31	Data Cubes
12	April 7	Deployment, expansion and support of the DW
13	April 14	Data Mining
14	April 21	Big Data
15	April 28	Final Exam
16	May 5	Presentations

Note: Dates are subject to change.