Course Title: Introduction to Data Warehousing

Course Description: Learn the various techniques in modeling and accessing data from various parts of a data warehouse system. Apply Data Warehouse core concepts, skills, and techniques.

Course Prerequisite(s): Basic Data Modeling Principles and/or Reporting

Course Objectives: Students will understand the components and processes of a data warehouse system, designing and loading a dimensional model, and techniques for gathering business requirements.

Certification Notes: This is the first class in the business intelligence certificate series, and capability in our maturity model and project roadmap for the certificate series.

Instructor Notes: We will have a lab and/or class exercise for each session. The course material and vendor software used to design and implement the data warehouse is subject to change. The students will learn the basic constructs of SQL (DDL and DML) for design and reporting.

Textbook(s): Instructor created handouts with book recommendations.

Lesson Plan – by week or session
Session 1: Architecture components and processes of a data warehouse and BI system.
Session 2: Gathering business requirements. Dimensional modeling and architecture design considerations.
Session 3: Core ETL components and processes.
Session 4: Accessing data warehouse components for dimensional analysis. Test.