

## Global Learning Semesters

### Course Syllabus

Course: ITM-545 Data Management

Department: Computer Science

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
ITM-545	Data Management	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	None
Department	Level of Course	Language of Instruction
Computer Science	Upper Division	English

### Course Description

This course provides a structured framework for database analysis, design, implementation and administration. The course will cover conceptual database design, languages and facilities provided by database management systems. Processes and techniques for implementing and administering database systems are also provided. Special interest topics will also include Client/Server database systems, Transaction Processing, and Object-Oriented databases. Additional technology related to Data Warehousing (OLAP) and Customer Relationship Management is covered as well. The comprehensive and detailed coverage of database systems is complemented with ample exercises, problems and a step-by-step case study that takes the student through the implementation of an actual database to provide a context for learning marketable skills.

### Prerequisites

None

### Readings and Resources

#### Required Textbook/ Other Readings

- Hoffer J., Prescott M. and McFadden F. (2002). Modern Database Management, Sixth Edition, Prentice Hall, ISBN 0-13-042355-6.
- Dovenport T. H. and Glaser J. (2002). Just in Time Delivery comes in Knowledge Management, Harvard Business Review Article, R0207H.
- Loveman G. (2003). Diamonds in the Data Mine, Harvard Business Review Article, R0305H.
- Winer R. S. (2001). A Framework for Customer Relationship Management, California Management Review, vol. 43 (4).
- George Marakas (2002), Modern Data Warehousing, Mining and Visualization: Core Concepts, Prentice Hall, ISBN: 0-130101459-5.

#### Recommended Readings

Other relevant books are listed below. These are not required for the course, but are helpful.

- Galemno N., Imhoff C. and Geiger J. (2003). Mastering Data Warehouse Design: Relational and Dimensional Techniques, John Wiley & Sons, ISBN: 0-47132-421-3.
- Kimball R. and Ross M. (2003). The Data Warehouse Toolkit: The Complete Guide to Dimensional Modeling, Second Edition, ISBN: 0-47120-024-7.

- Lewis P. M., Kifer M., and Bernstein A. J. (2001). Database and Transaction Processing: An Application Oriented Approach, Pearson Addison-Wesley, ISBN: 0-20170-872-8.
- Rob P. and Coronel C. (2001). Database Systems: Design, Implementation, and Management, Fifth Edition, Course Technology, ISBN: 0-61906-269-X.