



# Lincoln University

## BA 353

### Information Systems Database Management

#### COURSE SYLLABUS

Fall 2020

**Instructor:** Dr. Walter Kruz, DBA  
**Lecture Schedule:** Thursday, 12:30 PM – 3 PM  
**Credits:** 3 units / 45 lecture hours  
**Level:** Mastery 2 (M2)  
**Office Hours:** Thursday, 11:00 AM – 12:30 PM,  
Room 402 **e-mail:** [wrkruz@lincolnuca.edu](mailto:wrkruz@lincolnuca.edu)  
**Main Textbook:** Modern Database Management by Hoffer, 12th Edition ISBN: 10:0-13-354461-9, Pearson  
**Prerequisite:** BA160 or BA350  
**Last Revision:** August 8, 2020

#### CATALOG DESCRIPTION:

Explanation and comparison of the techniques and methodologies of database management systems in a business environment. Limitation and application of various DBMS; cost and benefits in selecting DBMS (3 units)

#### EDUCATIONAL OBJECTIVES

By taking the course, students will learn about database management systems and methods, database context management, the database environment, and the database development process. Students will learn methods of database analysis, data modeling, logical and physical database design and implementation, and the use of SQL.

#### COURSE LEARNING OUTCOMES<sup>1</sup>

	Course Learning Outcome	Program LO	Institutional LO	Assessment activities
1	Demonstrate an ability to analyze organizational data and develop its conceptual data model ERD ( Entity	PLO 1	ILO 1b, ILO 2b	Homework, participation in the in-class discussions; case

<sup>1</sup> Detailed description of learning outcomes and information about the assessment procedure are available at the [Center for Teaching and Learning](http://ctl.lincolnuca.edu) website (ctl.lincolnuca.edu).

	Relation Diagram).			studies; quizzes; midterm/final exams
2	Demonstrate ability to map conceptual data model into logical data model.	PLO 1	ILO 1b, ILO 2b, ILO 4b	Participation in the in-class discussions; case studies; quizzes;
3	Demonstrate ability to map logical data model to physical model using SQL DDL (Data Definition Language	PLO 3	ILO 2b, ILO 7b	Course project presentation, course project report; case studies; quizzes;
4	Demonstrate ability to manipulate data using SQL DML (Data Manipulation Language)	PLO 5	ILO 4b, ILO 5b	Course project presentation; case studies

### INSTRUCTIONAL METHODS

**This is a direct classroom instruction course.** It could be taught online.

This class offers a highly interactive learning environment. All students will expect to participate in class discussions, research findings, and class exercises. Short oral presentations may be assigned. Assignments may consist of textbook cases and research questions.

Assignments and projects require students to actively use resources of the library. Detailed guide to business *resources of the library* as well as the description of Lincoln University approach to *information literacy* are available at the [Center for Teaching and Learning](http://ctl.lincolnuca.edu) website (ctl.lincolnuca.edu).

### CLASS ATTENDANCE

Attendance is a school requirement. Exams may include questions from class discussions.

### EXAMS

Typically, the class exams will consist of several exams of equal weight as well as homework and quizzes throughout the sessions. All exams are individual deliverables. These activities enable the student to accumulate points which will be used to calculate grade performance. Exams are designed to demonstrate a student's mastery of concepts being discussed and consist mostly of short answers and calculations related to the material being discussed. The exam format is closed book with no electronic devices allowed. Failure to follow exam rules will earn 0 points or "F" grade for that exam.

### COURSE PROJECT

A project, if assigned, will consist of research describing the development of a database management system for a given business model. A written report, following the APA standard, and including a Turnitin score, will summarize this system development. A project outline is provided in class as guidance to complete the report.

**GRADING POLICY**

<b>Percentage</b>	<b>Grade</b>
90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
below 60%	F

<b>Weights</b>	
Homework	10%
Quizzes	5%
Midterm Exams (20% each) (3 exams)	60%
Team Research Project	25%
Total	100%

**SCHEDULE OF TESTING**

<b>Week</b>	<b>Test</b>
5	Exam 1
10	Exam 2
15	Exam 3

**PROPOSED CLASS SCHEDULE**

<b>Session</b>	<b>Activity</b>	<b>Assignment</b>
Session 1	Chapter 1. Intro to Databases, Class Project planning	Lecture, class exercises,
Session 2	Chapter 1. Database environment and Development process	Ch1 exercises
Session 3	Chapter 2 Modeling Data in the Organization – P1	Ch. 2 exercises
Session 4	Chapter 2 Modeling Data in the Organization – P2	Ch. 2 exercises
Session 5	Exam 1	Chapters 1 & 2
Session 6	Logical Database Design and the Relational Model – P1	Ch. 4 exercises
Session 7	Logical Database Design and the Relational Model – P2	Ch. 4 exercises
Session 8	Introduction to SQL, P1 DDL	Ch. 6 exercises
Session 9	Introduction to SQL, P2 DML	Ch. 6 exercises
Session 10	Exam 2	Chapter 4 & 6
Session 11	Introduction to SQL, P3 SELECT	Ch. 6 exercises
Session 12	Introduction to SQL, P4 SELECT	Ch. 6 exercises
Session 13	Advanced SQL (JOINS)	Ch 7 exercises
Session 14	Review	Submit Project
Session 15	Exam #3	Ch 6 & 7

Last Revision: 8/19/20