



Dr. Nenad Jukić

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Schreiber Center (Room 402) 16 East Pearson, Chicago, IL 60611

Office Hours:

Tuesday: 12:45 pm – 2:15 pm

Thursday: 12:45 pm – 2:15 pm

Also, by appointment

Additional HW-related TA office hours:

Friday: 3:30 pm - 5:00 pm LSC - Information Commons, Room 331

INFS346, Section 101, Database and Data Warehousing Systems, Spring 2018
Tuesday/Thursday 10:00 - 11:15, Schreiber 525

Catalog Description

- This course covers current concepts in database theory and use with the focus on design, implementation, and utilization of business database management systems. This course provides coverage of both operational (traditional) and analytical (business intelligence) database systems. Main topics of the course include ER modeling, relational modeling, normalization, SQL, dimensional modeling, data warehouses, data marts, OLAP/BI tool functionalities, database administration.

Course Overview

- This course includes lectures, homework assignments, group project and tests.

Course Objectives and Learning Outcomes

- Understanding of concepts and development steps related to database and data warehousing systems
- Proficiency in modeling, development, and use of databases and data warehouses

Textbooks

- Jukić, Vrbsky, Nestorov: "Database Systems – Introduction to Databases and Data Warehouses", Publisher: Prospect Press
- Shellman, Vodnik: "Microsoft Office 365 Access 2016 Comprehensive " Publisher: Cengage

Course Requirements and Grading Criteria

Homework Assignments	- 100 pts
Group Assignment	- 30 pts
Test 1	- 60 pts
Test 2	- 60 pts
Test 3	- 60 pts
<u>Final Exam</u>	- 125 pts
Total	- 435 pts

Course Grading Scale

A	minimum 92%
A-	minimum 90%
B+	minimum 88%
B	minimum 82%
B-	minimum 80%
C+	minimum 78%
C	minimum 70%
C-	minimum 66%
D+	minimum 64%
D	minimum 60%
F	minimum 0%

HW Assignment Submission:

Each HW assignment is worth 10 points. There are eleven HW assignments. The HW assignment with the lowest grade will be dropped. HW assignments are due before midnight (at 11:55 p.m.) on the due date. All HW assignments must be submitted via Sakai. **YOU CANNOT SHARE ANY PART OF YOUR HW FILES WITH ANY OTHER STUDENT. EVERY STUDENT MUST WORK INDIVIDUALLY ON THEIR OWN FILES. ANY INSTANCE OF SHARING OF HW FILES (OR ANY PARTS OF HW FILES) WILL BE GROUNDS FOR SERIOUS DISCIPLINARY ACTION AGAINST ALL PARTIES INVOLVED.**

Late submission policy: no late assignments accepted.

Additional notes:

- Check your grades often in the grade book on Sakai.
- Office hours' visits are encouraged and welcomed. Stop by as many times as you wish. If you are experiencing any problems do not hesitate to come to the office hours (or schedule an appointment). Also, feel free to visit during office hours to get advice on follow up classes, discuss career choices, or simply introduce yourself.
- Before you start with any HW assignment, download all the necessary files onto your computer, cloud drive, or flash drive (do not open the files directly from the Sakai site).
- Use e-mail judiciously (in general, e-mail is to be used for short messages, such as scheduling an appointment or requesting clearing of inadvertently submitted files). If you need concrete help with a HW assignment, please come to the office hours.

Final Exam: Tuesday, May 1st, 1:00 – 3:00 p.m.

Quinlan School of Business Policies:

Attendance

Class attendance and participation are fundamental components of learning, so punctual attendance at all classes, for the full class meeting period, is expected of Quinlan students in this class.

Make-Up Examinations

Loyola University academic policy provides that tests or examinations may be given during the semester or summer sessions as often as deemed advisable by the instructor. Because Quinlan faculty believe examinations represent a critical component of student learning, required examinations should be taken during the regularly scheduled class period. **Make-up examinations are discouraged.** Exceptions may be granted only by the faculty member or department chair, and only for unavoidable circumstances (illness verified by a signed physician's note, participation in intercollegiate athletic events, subpoenas, jury duty, military service, bereavement, or religious observance). A make-up final examination may be scheduled only with the permission of the appropriate Quinlan Assistant or Associate Dean. If a make-up examination must be given, it is the responsibility of the faculty member to prepare, schedule, and proctor the exam. Limited assistance in proctoring make-up exams may be available through a designated Quinlan administrative assistant. For a student with a documented special testing need, please consult University policy concerning use of the testing center in Sullivan Center at Lake Shore Campus.

Academic Integrity

All members of the Quinlan School shall refrain from academic dishonesty and misconduct in all forms, including plagiarism, cheating, misrepresentation, fabrication, and falsehood. Plagiarism or cheating on the part of the student in individual or group academic work or in examination behavior will result minimally in the instructor assigning the grade of "F" for the assignment or examination. In addition, all instances of academic dishonesty must be reported to the chairperson of the department involved. For further information about expectations for academic integrity and sanctions for violations, consult the complete Quinlan School of Business Honor Code and Statement of Academic Integrity on the Quinlan website: <http://luc.edu/media/lucedu/quinlan-graduate/pdfs/Honor-Code-Quinlan-July2012.pdf>

Notes:

This class may occasionally deviate from the stated course outline below.
The instructor reserves the right to make changes as needed to the course syllabus.
Any issue that is not described in this syllabus will be resolved at the sole discretion of the instructor.

Mark Your Calendar:

Quinlan Spring Career and Networking Fair

Wednesday, February 21st (Accounting) and Thursday, February 22nd (All business majors)
Schreiber Center, Water Tower Campus

Loyola University Career Fair

Wednesday, February 21 (All majors)

1:30 – 5:00 p.m.

Damen Student Center, Lake Shore Campus

Class by Class/Week by Week Course Outline (Tentative)

<i>Week No</i>	<i>Date</i>	<i>Exams</i>	<i>Database Systems Lectures</i>	<i>DUE</i>	
WEEK 1	Week of Jan 15		Chapters 1, 2		
WEEK 2	Week of Jan 22		Chapter 2	HW 1 (MS Access) Due Friday	
WEEK 3	Week of Jan 29		Chapter 2, 3	HW 2, (ERD) Due Friday	
WEEK 4	Week of Feb 5	Test 1 (Tuesday) <i>Ch 1,2 (60 pts)</i>	Chapter 3, 4	HW 3, (MS Access) Due Friday	
WEEK 5	Week of Feb 12		Chapter 4	HW 4, (Relational Schema) Due Friday	
WEEK 6	Week of Feb 19		Chapter 5	Group Assignment – Part 1 Due Tuesday in class	HW 5 (MS Access) Due Friday
WEEK 7	Week of Feb 26	Test 2 (Tuesday) <i>Ch 3,4,5 (60 pts)</i>	Chapter 5	HW 6 (MS Access) Due Friday	
WEEK 8	Week of Mar 5	☺ SPRING BREAK ☺			
WEEK 9	Week of Mar 12		Chapter 5	HW 7 (SQL) Due Friday	
WEEK 10	Week of Mar 19		Chapters 5, 6	HW 8 (SQL) Due Friday	
WEEK 11	Week of Mar 26		Chapter 7, 8	HW 9 (SQL) Due Friday	
WEEK 12	Week of Apr 2	Test 3 (Tuesday) <i>Ch 5,6,7 (60 pts)</i>	Chapter 8	Group Assignment – Part 2 Due Friday	
WEEK 13	Week of Apr 9		Chapter 8, 9	HW 10 (Dimensional Model) Due Friday	
WEEK 14	Week of Apr 16		Chapter 9, 10	HW 11 (OLAP) Due Friday	
WEEK 15	Week of Apr 23		Chapter 10, NOSQL, ERP, EER, Big Data, Course Evaluations		
WEEK 16	Week of Apr 30	FINAL EXAM (125 pts) <i>Comprehensive – Tuesday, May 1st, 1:00 – 3:00 p.m.</i>			