



Abhishek Sharma

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Office Hours: Friday 5:00 – 6:00 PM
TA Office Hours: Friday 2:00 – 3:00 PM

INFS492, Database Systems Spring 2018
Friday 6:00 PM – 9:00 PM, Schreiber Center - Room 525

Catalog Description

- This course covers current concepts in database theory and use, with focus on design, implementation, and utilization of business database management systems. This course provides coverage of operational database systems. Main topics of the course include database requirements, ER modeling, relational modeling, database constraints, update anomalies, normalization, SQL, the database front-end, data quality and database administration.

Course Overview

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

Course Objectives and Learning Outcomes

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

Textbooks

- Jukić, Vrbsky, Nestorov: "Database Systems – Introduction to Databases and Data Warehouses", Published by Prospect Press, 2016,
eTextbook ISBN: 978-1-943153-18-3
Paperback ISBN: 978-1-943153-19-0
(<http://www.prospectpressvt.com/titles/jukic-database-systems/>)
- Microsoft Office 365 Access 2016 Comprehensive by Mark Shellman and Sasha Vodnik Published by Cengage, 2016 ISBN:9781337494656
- **Software:** - MS Access 2013, ERDPlus, and Oracle

Course Requirements and Grading Criteria

Project	50 points (Phase 1-2 15 points, Phase 3 20 points)
HW	50 points (10 points each)
Midterm	100 points
Final Exam	100 points

Course Grading Scale			
A	Above 275		
A-	Above 269	to	275
B+	Above 263	to	269
B	Above 245	to	263
B-	Above 239	to	245
C+	Above 233	to	239
C	Above 215	to	233
C-	Above 195	to	215
D+	Above 188	to	195
D	Above 180	to	188
F	Above 0	to	179

HW Assignment Submission:

Each HW assignment is worth 10 points. There are five HW assignments. HW assignments are due before midnight on the due date. All HW assignments must be submitted in person during office hours or 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, first download all the necessary files onto your computer 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: Nov 2 2018

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.

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 believes 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.

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://www.luc.edu/media/lucedu/quinlanschoolofbusiness/pdfs/Honor-Code-Quinlan-July2012.pdf>

Notes:

This class may occasionally deviate from the stated course outline below. The instructor reserves 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.

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

Week No	Quizzes <i>(multiple choice, T/F)</i> and Exams <i>(problems, essays)</i>	Text Book Lectures	DUE
WEEK 1		Chapter 1, 2	
WEEK 2		Chapter 2	HW 1 MS Access Tutorial (Creating and Building Database)
WEEK 3		Chapter 2, 3	HW 2 MS Access Tutorial (Queries)
WEEK 4		Chapter 3	Project Phase 1 (ERD)
WEEK 5		Chapter 4	HW 3 MS Access Tutorial (Forms and Reports)
WEEK 6	Midterm Exam (Textbook Chapters 1-3)		Project Phase 2 (Relational Schema)
WEEK 7		Chapter 4, 5	HW 4 MS Access Tutorial (other features including Macros, Action Queries, etc.)
WEEK 8		Chapter 5	Project Phase 3 (Implementation)
WEEK 9		Chapter 6,10	HW 5 SQL textbook exercises from page 175
WEEK 10	Final Exam(Textbook Chapters 1-6,10)		