

Course Syllabus
CAP 4301 Information and Database Systems I
Section 1304, Fall 2012

1. Catalog Description (3 credits):

The first part of a two-course sequence which studies the essential concepts, principles, and techniques of modern database systems. Topics include modeling and querying of data using conceptual data models as well as the development of a database application.

2. Pre-requisites and Co-requisites

Pre-requisites: COP 3504 Advanced Programming Fundamentals for CIS Majors or COP 3503 Programming Fundamentals for CIS Majors 2 and COT 3100 Applications of Discrete Structures.

3. Course Objectives

At the end of the semester, students are expected to be able to

- Understand the basics of DBMS
- Design and analyze database
- Query a database using SQL
- Understand how database software is implemented

4. Instructor: Rong Zhang

Office location: CSE E526

Telephone: 352-505-1542

E-mail address: rzhang@cise.ufl.edu

Office hours: T 10:00am – 12:00pm or by appointment in CSE E526

5. Teaching Assistant

Name: Helia Zandi

E-mail address: helia@cise.ufl.edu

Office hours: Tuesday 2:30pm – 4:30pm and Thursday 10am – 11am or by appointment in CSE E309

6. Meeting Times:

MWF period 3 (9:35am – 10:25am)

7. Meeting Location: CSE E121

8. Textbooks

Required textbook: *A First Course in Database Systems, 3rd Edition*

Publisher: Prentice Hall

ISBN: 013600637X

NOTE: You may purchase *Database Systems: The Complete Book (2nd Edition)* if you wish to have a comprehensive reference that covers databases from a systems as well as a user perspective.

9. Course Outline -

Following are the tentative course outline. There might be a slight shift in topics depending on the backgrounds or interests of the students

- Introduction to the database
- Database Design and organization: ER model and relational data model
- Query Languages: relational algebra, SQL
- A variety of other issues: indexes, views, transactions, integrity constraints, and triggers.
- DBMS implementation
- XML and UML
- Advanced topics such as data warehousing, data mining

10. Attendance and Expectations -

Class attendance is required. If for some reason you have to miss a class, you are responsible for getting class notes from a classmate. Make sure to email your completed work to the instructor or TAs before class to avoid a penalty if an assignment is due. Cell phones should be turned off or set to vibrate.

11. Homework Policies -

You may discuss assignments with other students. But you must do the project by yourself. If one project is proven to be copied from another student or directly from the internet, 0 point will be given.

You are allowed **ONE** late-day that you can use at anytime. Please note that once you have used your late day, no additional extensions will be granted for any reason at all. Please let the TA know you plan to use your late-day in your submission.

Minimum Effort Requirement: you must turn in a minimal credible effort for EVERY assignment or your overall grade will be reduced one grade (an A would become an A-, an A- become a B+, etc.). A turned-in assignment achieving at least 30% of the possible points (before late assignment penalties) will be considered a minimal credible effort. For example, if a homework has a maximum possible 30 points, then a turned-in assignment achieving at least 9 points before late penalties would be considered a minimal credible effort.

12. Grading Scale -

Final grade is calculated according to the following schedule

Homework	20%
Mini-projects	30%
Exams	50%

And the grade scale is:

A(100-95), A-(94-90), B+(89-87), B(86-83), B-(82-80), C+(79-77), C(76-73), C-(72-70), D+(69-67), D(66-63), D-(62-60), F(59-0)

Grades may be curved.

A C- will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). Note: a C- average is equivalent to a GPA of 1.67, and therefore, it does not satisfy this graduation requirement. For more information

on grades and grading policies, please visit:

<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

13. Make-up Exam Policy –

All students should plan to take their exams at the scheduled times. In the case of sudden or unexpected events that will cause them to miss an exam, students are required to notify the instructor prior to the exam or as early as possible. Make-up exams are given only in exceptional circumstances with the Instructor's permission.

14. Honesty Policy –

All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

15. Accommodation for Students with Disabilities –

Students requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

16. UF Counseling Services –

Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- University Counseling Center, 301 Peabody Hall, 392-1575, Personal and Career Counseling.
- SHCC mental Health, Student Health Care Center, 392-1171, Personal and Counseling.
- Center for Sexual Assault/Abuse Recovery and Education (CARE), Student Health Care Center, 392-1161, sexual assault counseling.
- Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

17. Software Use –

All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.