

CIS 4301 – Information and Database Systems I

<http://www.cise.ufl.edu/~pjd/>

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Hours: <https://www.cise.ufl.edu/~pjd/courses/Schedule.pdf>

Course Description & Objectives

This course will introduce students to the principles of managing large data sets using a Database Management System (DBMS). Understanding how to construct an organized data store and providing functionality for retrieving stored data is critical to the management process. We are motivated by companies such as Amazon, eBay, Expedia, IMDB, Pinterest, and so on whose online storage and searching features provide many on demand benefits to consumers.

The topics we will cover include: entity-relationship (ER) models, conceptual database design and modeling, the relational model, relational query languages (relational algebra, relational calculus, and SQL), logical database design (functional dependencies and normal forms). Weekly course topics are provided on the calendar pages of the course website.

Text Book

- *Database Systems: The Complete Book*, Second Edition, Garcia-Molina, Ullman, & Widom, Prentice Hall, ISBN 0-13-187325-3.
- *A First Course in Database Systems*, Third Edition, Ullman & Widom, Prentice Hall, ISBN 0-13-600637-X.

Policies & Grading

General policies can be found here: <http://www.cise.ufl.edu/~pjd/admin/policies/course.html>. You are expected **know and follow** all of these policies.

In order to be successful in this course, you should attend lecture. There is no replacement to the experience of seeing the material presented during lecture.

Activity	Final Grade Percentage
Exams	48%
Project Assignments	36%
Semester Project	16%

Exams

The exam schedule is provided here. There will be three exams. All exams will be given in lecture. Each exam is worth 16% of your final grade.

Exam	Day	Date
I	Wednesday	2019 / 02 / 13
II	Wednesday	2019 / 03 / 27

Project Assignments

Project assignments will include written homework problems and the implementation of database management programs. Assignments include a semester long project distributed into parts and individual homework exercises. The details of project submissions will be given for each assignment and include submissions given by hard copy in lecture and soft copy via [e-Learning](#) (Canvas: <https://elearning.ufl.edu/>) by 11:59 PM on the due date assigned within the project specification. If you will be absent from lecture, ensure any assigned hard copies have been delivered to before the lecture meeting time. Your lowest project score will automatically be dropped.

Late projects: No project solutions can be accepted after the solution is posted. If the solution has not been posted and you submit one day late, there will be a penalty of up to 50% of the project grade. No projects that are two days late can be accepted. Note, if the assignment is due at 11:59 PM, then at 12:00 AM the project is one day late.

Semester Project

Some of the homework problems included in your project assignments will combine together to form a semester long project. This portion of your grade will assess your completion of the entire semester project.

Practice Exercises

There will be practice exercises assigned during lecture that are not associated with a graded project. These exercises are supplemental to the course lectures and graded materials, helping you in your studies and preparation. These exercises will not be collected, however if you would like to discuss your solutions with us, please do so. It is *highly* recommended that you complete and participate in non-graded course activities: *lecture* and *practice exercises*, in addition to the graded activities: *exams* and *projects*.

Grading Scale & Calculation

University regulations regarding grades and the calculation of grade points earned can be found here: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>. The range used to calculate your final letter grade in our course will be no harsher than this grading scale:

Grade	Highest	Lowest
A	100	92.00
A–	91.99	89.00
B+	88.99	86.00
B	85.99	82.00
B–	81.99	79.00
C+	78.99	76.00
C	75.99	72.00

C-	71.99	69.00
D+	68.99	66.00
D	65.99	62.00
D-	61.99	59.00
E	58.99	0.00

If it is permitted that the course be taken SU, a 75 or higher is required to receive an S (Satisfactory). The formula used to calculate your final total of points is given here. Semester by semester the total worth or number of projects may vary, however the logic of the formula remains the same, i.e. the Summation of Your Total Score will be divided by the Total of Points Available and then multiplied by the Final Grade Percentage.

In the sample scenario provided here, there are 3 exams, each worth 100 points, there are 11 homework projects, each worth 25 points, and the evaluation of your semester project will be worth 100 points. Note, drops are accounted for in the calculation given and graded activity totals:

$$\begin{aligned} \text{Exams} &= (\text{Sum of Your Exam Scores} / 300) * 48 \\ \text{Project Assignments} &= (\text{Sum of Your Project Scores} - \text{Lowest Project Score} / 250) * 36 \\ \text{Semester Project} &= (\text{Semester Project Score} / 100) * 16 \end{aligned}$$

$$\text{Final Total} = \text{Exams} + \text{Project Assignments} + \text{Semester Project}$$

Absences

Daily attendance is not recorded in our course. You are free to miss without penalty any lecture where there is no graded class activity. All graded class activity dates (exams, quizzes, and so on) will be announced before the activity is administered. Whether or not you attend lecture, you are responsible for all material covered in every lecture, including during any absences.

Make Up Schedule

There will be one make up session. Given a university approved excuse for missing an exam, the make up will be on Thursday, May 2, 2019 from 3:00 – 5:00 PM (our university assigned final exam period).

To be eligible to take the make up, you must inform me one week prior to the conflict in question and present sufficient documentation regarding absences from graded class activities, for example a note from a medical professional if you were to become ill. Do not wait until after you have missed the activity to inform me of your conflict. There are very few events which would impede your participation in a graded activity warranting an exception, that you would not be aware of well before (at least a few hours) the start of the activity. Contacting me after the graded activity may result in the exception not meeting course requirements and a make up option no longer being available. Complete university guidelines for absences and make ups can be found here: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Re-grading Requests

All grading/re-grading issues **must** be resolved within **1 week** of the graded work being returned. You must return exams/projects/quizzes to your TA, along with a **printed (not handwritten) attachment** stating the reasons for the re-grade. Do not write anything on the exam itself or detach (un-staple) the pages from each other. If you do so, your exam/project/quiz will not be re-graded. Note, when requesting a re-grade, the whole exam/project/quiz is subject to the re-grade, not just the portion you specify. We will be happy to discuss the solution and answer any questions, however no change will be made after the allotted week has passed.

Curving

Any curve will be determined at the end of the semester, after every student has completed all course activities. No judgment can be made beforehand. Since new exams, projects, and so on are given every semester, the scale of a previous semester has no bearing or indication as to the final scale for this semester. The grading ranges will be created based upon the complete analysis of every student's final average.

Special Notes for the First Week of Classes

There will be no office hours the first week of classes. If you need to see me, do so after lecture or schedule an individual appointment.

Course Assistants

Here are our Course Assistants (referred to in this document as CAs).

Name	Office	Office Hours
Ira	CSE E309 // E312	See Daily Schedule
James	CSE E309 // E312	See Daily Schedule
Kathy	CSE E309 // E312	See Daily Schedule

Whom Should I Speak with Regarding?

Here are the individuals that you should see concerning the following topics:

Course Policies	Pete & Any CA
Course Material Questions	Pete & Any CA
Project Questions	Any CA
Exam Grading	Any CA
Project Grading	The CA assigned to grade the specific project
Picking Up Graded Work	Any CA

The Do's

Come to my office hours and the CAs office hours. We will be glad to help you as much as possible. Above I refer to the “timeliness of questions”, office hours are always a good time to ask any question of the appropriate person. Please remember to follow the guidelines above.

Always start early. The projects and your studying will be easier the sooner you begin. Starting early will allow you more time to ask the specific questions you need answered in order to complete the projects and understand the material given on testing activities.

Email

When emailing me (Pete), please include **CIS 4301** (and only CIS 4301) as the email subject. Also, within every email, clearly place **your name** and **section number** at the **top** of the email. Emails without this information are easier to lose and harder to reply to quickly. As above, here is the format you should follow:

Name Bullwinkle J. Moose
Section 4321

Before emailing questions, always read the syllabus, announcements, and schedule. It is quite possible that your question has already been answered in one of these places.

I and the CAs will answer your questions and resolve your issues the quickest and most clearly in office hours. We receive many emails and reply to them in their order of importance. If you would like to ensure your question is moved to the top of the list, see us in office hours.

The Do Not's

Never place your Social Security # or UF ID # on any course material.

If you are using a laptop during lecture, use it only for the purpose of taking notes and following along with our topic of discussion. Do not play games, chat, or create any similar distractions for yourself and your classmates during lecture. Turn off your cell phone, laptop speakers, and all other electronic devices before lecture begins.

Please review the syllabus and online materials to assist in answering questions such as “Where is the CAs office?” or “What are your office hours?”. Copies of the syllabus are available on the course web site for your convenience.

Never ask when grades will be posted. We always post grade information as soon as possible. If you would like a grade to be clarified, see the appropriate CA in his or her office hours immediately.

Academic Honesty

We will adhere to the academic honesty policies of the University of Florida, which can be reviewed at <http://www.dso.ufl.edu/>. When a breach of these policies occurs, the University requires that the incident is reported to Dean of Students office (<https://sccr.dso.ufl.edu/contact/report-an-incident/>). The incident will then be investigated by Judicial Affairs and when an incident is found to have broken the University of Florida's [Student](#)

[Honor Code \(https://sccr.dso.ufl.edu/students/student-conduct-code/\)](https://sccr.dso.ufl.edu/students/student-conduct-code/) a penalty is assessed. Penalties range from grade reductions to expulsion from the University. In addition, a notation of the incident is placed on the student's permanent record.

All coursework: exams, projects, homework and so on are to be done individually. A list covering some examples of actions which break the honor code is given here.

- Copying, submitting, or viewing the work of another student.
- Working in any capacity with or helping other student(s).
- Providing any work directly (your own) or transferring the work of someone else to another student.

Recall, our course provides office hours for your assistance in understanding course material. Take advantage of these hours to receive help with your comprehension of the topics being addressed.

Students with Disabilities

Students requesting classroom accommodation must first register with the Dean of Students Office (<https://drc.dso.ufl.edu/>). The Dean of Students will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Your documentation and specific needs must be given to me at the *beginning of the semester* so that appropriate arrangements are made. The Dean of Students office requires request forms be completed well in advance to any accommodation request, therefore I need you to ensure your request has been made to me and all documentation delivered at least *seven business days* prior to the date of the request.

Commitment to a Safe and Inclusive Learning Environment

The Herbert Wertheim College of Engineering values broad diversity within our community and is committed to individual and group empowerment, inclusion, and the elimination of discrimination.

It is expected that every person in this class will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:

- Your academic advisor or Graduate Program Coordinator
- Robin Bielling, Director of Human Resources, 352-392-0903, rbielling@eng.ufl.edu
- Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, taylor@eng.ufl.edu
- Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, nishida@ufl.edu

Sexual Discrimination, Harassment, Assault, or Violence

If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the **Office of Title IX Compliance**, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, title-ix@ufl.edu.

Course Registration Requirements

In order to take this course, sit in on the course, or complete an incomplete of this course every student must be [officially registered](https://registrar.ufl.edu/registration/reghowto) (<https://registrar.ufl.edu/registration/reghowto>) in either the typical fashion or through the auditing process. Any student not officially registered is in violation of UF policy and subject to the penalties set forth by the University.

Evaluations

Instructor evaluations will be performed near the end of the semester. All students are highly encouraged to provide feedback not only evaluation the quality of the course offered, but also to assist the instructional staff in enhancing the course being offered. Evaluations are completed here: <https://evaluations.ufl.edu/evals/Default.aspx>. Previous evaluation can be reviewed here: <https://evaluations.ufl.edu/results/>.

Disclaimer

This document is subject to change at the discretion of the instructor, based on unforeseen circumstances (such as hurricanes, sub-freezing temperatures... this is Florida after all, rifts in the fabric of time, and so on) occurring during the semester.