



MIST 4610

Fall 2022.

Instructor

✉ Dr. Carolina Salge

📅 TR

📍 Correll Hall 116

🕒 02:20 - 03:35 pm

📖 CRN 29704

📍 Correll Hall 116

🕒 03:55 - 05:10 pm

📖 CRN 39217

Course Description

Data management, including database design, development, access, and administration. Provides foundations of data analytics.

Pre-requisite

MIST 2090 or MIST 2090E or MIST 2190H.

The syllabus is a general plan for the course; deviations announced by the instructor may be necessary.

Objectives

Students completing this course will be able to:

- Develop a valid data model for a business system of medium complexity
- Build and use a relational database
- Formulate complex relational database queries
- List and discuss the principles of managing organizational data
- Prepare data visualizations
- Work in teams on various data-related projects

Text Book

Watson, R. (2022). Data Management: Databases and Organizations: open edition. Other readings as assigned and uploaded to eLC.

MySQL

MySQL Workbench for data modeling and SQL execution (tutorial).

MySQL database:

- Laptop for midterm and final exams
- Terry College server for SQL exercises
- Hostname: **codrus.terry.uga.edu** - Port: **3306**
- Username: **cs_yourMyID**
- Password: **your810/811number**
- You will get different server credentials for group work

When off campus, you will need to use VPN to connect to Terry's server. You will also need to be enrolled in ArchPass Duo, a two-factor authentication system.

Analytics

Tableau, a visual analytics platform owned by Salesforce.

File Security

You are responsible for the security of your own files. To avoid problems, I recommend to regularly backup copies of your work. In addition, when modeling data or writing queries in MySQL Workbench, save your files to prevent data loss in the case of a computer crash.

Withdrawal Deadline

Withdrawal deadline for this semester is October 24.

Attendance

Attendance is not required for this course but highly encouraged. A recent PNAS study shows that "*being actively engaged in the classroom*" is a significant predictor of actual learning.

Tutoring

The Division of Academic Enhancement (DAE) offers free peer tutoring for this class. To engage with a Peer Tutor, download the Penji app, available on iOS and Android, and sign in through SSO using your MyID. Visit their website for more information on how to engage with a Peer Tutor or email them at tutor@uga.edu. In addition to peer tutoring, the DAE also provides Academic Coaching, Student Success Workshops and more. The DAE is committed to the success of all students at the University of Georgia. For more on these and other resources, please visit dae.uga.edu.

Academic Honesty

As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, "A Culture of Honesty, " and the Student Honor Code. All academic work must meet the standards described in "A Culture of Honesty." Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

Team Work

In this course, you will work in groups. It occasionally happens that someone in a team is not prepared to do his/her share. In my courses, I recommend that the team give the freeloader one warning and then fire that person. That person will then do group assignments individually or find a new team to join. The instructor should be notified of changes in team composition immediately. **All teams should have about 3-5 members.**

Special Accomodations

For special accommodations, especially for quizzes, exams, or assignments, inform the instructor ahead of time (at least 48 hours a priori).

Re-grading Exercises, Quizzes, Exams, or Projects

Students should contact the instructor within a week after grading to review exercises, quizzes, exams, or projects if they have questions. Reviews can be done during office hours or by appointment.

COVID-19

For the latest on UGA policy, you can visit: coronavirus.uga.edu.

Mental Health and Wellness Resources

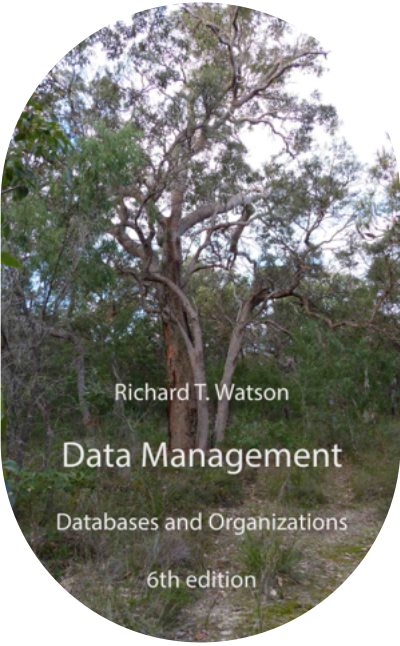
If you or someone you know needs assistance, you are encouraged to contact Student Care and Outreach in the Division of Student Affairs at 706-542-7774 or visit https://sco.uga.edu/. They will help you navigate any difficult circumstances you may be facing by connecting you with the appropriate resources or services. UGA has several resources for a student seeking mental health services or crisis support. If you need help managing stress anxiety, relationships, etc., please visit BeWellUGA for a list of FREE workshops, classes, mentoring, and health coaching led by licensed clinicians and health educators in the University Health Center. Additional mental health resources are available on the UGA App.

Diversity, Equity, and Inclusion

The College is committed to promoting diversity, equity, inclusion, and belonging among its students, faculty, and staff. This class welcomes the open exchange of ideas and values freedom of thought and expression. This class provides a professional environment that recognizes the inherent worth of every person. It aims to foster dignity, understanding, and mutual respect among all individuals in the class.

For any questions about MIST 4610, please use contact the instructor via e-mail.

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Assignments

See eLc for the due date. The due time is **11:59pm** on the due date. Submit all assignments on eLc (*not e-mail*). I will deduct points for submitting assignments late (10% for each day, up to 2 days). Assignments submitted after 2 days of the due date and time will not be accepted (except for special accomodations).

First Group Project

For your first group project, you will have to model a database for a given business situation. You will need to develop a data model, convert the data model to a relational database, and write queries to access the database. More guidelines will be provided.

Second Group Project

The second group project is similar to the first, except that it will be based on a real-life business situation and will have an increased level of complexity. Again, additional guidelines will be provided.

Exercises

Exercises will be given on a regular basis to practice SQL, data modeling, and analytics skills. Students have the option to work with a peer. For each exercise, a subset of the questions will be graded.

Quizzes

Quizzes will be given on a regular basis. Make-up quizzes will not be given for any reason, but each student’s lowest quiz will be dropped at the end of the semester.

Professional Development Requirements

The purpose of the professional development requirements is to provide students with the short and long-term skills needed to flourish professionally. The requirements vary with the course and where students are in their program of study, but the requirements are designed to provide needed preparation for both entering the workforce and having a successful career. In our class, professional development credit requires the completion of the Arch Ready Professionalism Certificate (which involves attending five events offered by the UGA Career Center. See [schedule](#).

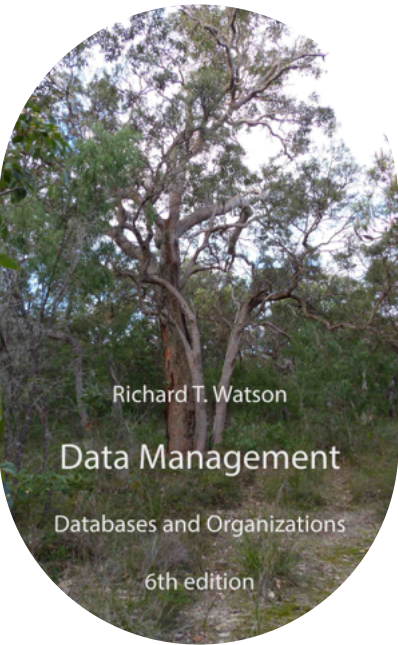
Note: If you have potential conflicts with meeting the professional development requirements or if you think that there are better development activities for your situation, meet with your instructor to discuss the possibilities. Requests for alternative ways of meeting the professional development requirements must be entered into MISTERS by September 29.

Exams

This course requires the completion of two examinations (each with two parts). Only in the case of documented illness or a documented emergency causing a student to miss an exam, a special makeup exam might be given, or other arrangements might be made. However, in fairness to all students, documentation of illness (from health care facility) or emergency is needed – no exceptions.

There is an optional cumulative final exam for the course. If you intend to take the optional final exam, you must inform the instructor of this via email no later than **5:00 pm, November 22, 2022**. If you take the cumulative final exam, then exams 1 and 2 (together) will count for 30% and the final exam will count for 10% of your final grade.

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Grading

item	points
exercises	15
quizzes	15
professional development	5
first exam	20
second exam	20
first group project	10
second group project	15
total	100

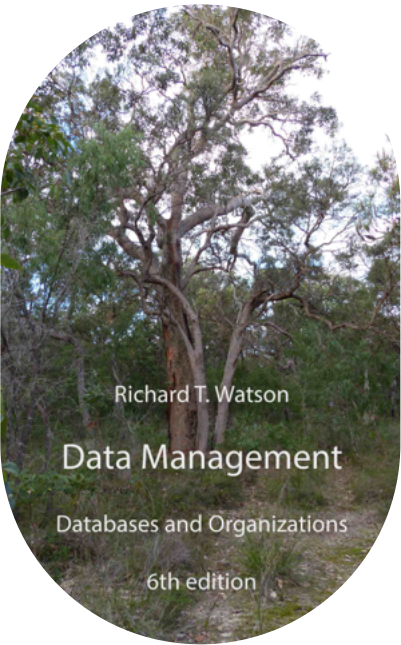
Grade Ranges

Course grades are assigned using the following ranges:

- A = 93 or above
- A- = 90 to 92.99
- B+ = 87 to 89.99
- B = 83 to 86.99
- B- = 80 to 82.99
- C+ = 77 to 79.99
- C = 73 to 76.99
- C- = 70 to 72.99
- D = 60 to 69.99
- F = 59.99 or below

Grades will not be rounded up, for example, a 89.99 is a B+ and will not be changed to a 90.

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Schedule

week	date	topic
1	Aug 18	syllabus
2	Aug 23 & 25	install / mysql workbench & single entity (ch3)
3	Aug 30 & Sept 1	single entity (ch3) & one-to-many relationships (ch4)
4	Sept 6 & 8	one-to-many (ch4)
5	Sept 13 & 15	many-to-many (ch5)
6	Sept 20 & 22	one-to-one (ch6)
7	Sept 27 & 29	recursive (ch6)
8	Oct 4 & 6	more data modeling (ch7)
9	Oct 11 & 13	exam 1 - part 1 & 2
10	Oct 18 & 20	normalization (ch8) & integrity rules (ch9)
11	Oct 25 & 27	advanced sql (ch10) & data integrity (ch23)
12	Nov 1 & 3	introduction to analytics with tableau
13	Nov 8 & 10	introduction to analytics with tableau
14	Nov 15 & 17	exam 2 - part 1 & 2
15	Nov 22	finalize second group project
16	Nov 29 & Dec 1	second group project presentations
final	Dec 6	no class (friday schedule in effect)

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