INFO 3233-001 FALL 2022
Data and Information Management

Instructor: Dr. Ram Kumar
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Office Hours: T-TH 2-4pm (203B- Friday) and by appointment
THESE ARE ON ZOOM
https://charlotte-edu.zoom.us/j/94253881135?pwd=QjRZZ0k2R2ZObXi1YUs2dWFGaHFrQT09

Meeting ID: 942 5388 1135
Passcode: office
PASSWORD: office

Scheduled Meeting Times

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<tr>
<th>Type</th>
<th>Time</th>
<th>Days</th>
<th>Where</th>
<th>Date Range</th>
<th>Schedule Type</th>
<th>Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>8:30 am -</td>
<td>TR</td>
<td>Friday 132</td>
<td>Aug 22, 2022 -</td>
<td>Lecture</td>
<td>Ram L Kumar</td>
</tr>
<tr>
<td></td>
<td>9:45 am</td>
<td></td>
<td></td>
<td>Oct 27, 2022</td>
<td></td>
<td>(P)</td>
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<tr>
<td>Class</td>
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<td>College of Health &amp;</td>
<td>Nov 01, 2022 -</td>
<td>Lecture</td>
<td>Ram L Kumar</td>
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<td>9:45 am</td>
<td></td>
<td>Human Serv 370</td>
<td>Dec 15, 2022</td>
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Overview

- *This syllabus contains the policies and expectations for this course. Please read the entire syllabus carefully. The standards and requirements set forth in this syllabus may be modified at any time by the instructor.*
- *Notice of such changes will be by announcement in class and/or by changes to this syllabus posted on the course Canvas website.*

Catalog Description

A study of and implementation of databases for business applications. Exploration of basic concepts of design and the use of SQL to create and manipulate corporate databases.

Pre- or Corequisite(s): INFO 3130 with grade of C or above; and Junior standing or permission of department.

Course Learning Objectives

1. To be familiar with the database terminology used to support business.
2. To develop the ability to effectively design and implement relational databases for business.
3. To understand data modeling and the application of both the entity-relationship and normalization approaches to the design of relational databases.

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4. To use DBMS software to structure, query and update databases through the use of SQL.

Course Materials

- **Students are expected to bring laptops to class as needed (Instructor will let you know when)**
- **Textbook student website** contains video tutorials, datasets, interactive quizzes, solutions to select problems, PowerPoint presentations, and the textbook Appendices.
- **Other readings and helpful documents or videos will be posted on Canvas.**

Grading

**Exams**: Four equally weighted exams will be given in this course: three during the semester plus a comprehensive final. However, only three of the exams will be counted towards the grade. Students may take all four exams and drop the one with the lowest grade.

**Assignments & Project**: Assignments & Project are to be completed in groups of 3 or 4 students are due on the dates posted on the syllabus and Canvas.

All members in a group are expected to contribute. If a group member does not contribute, the rest of the members may, after a consensus agreement and the consent of the instructor, ask him/her to leave the group. The maximum project grade for students not belonging to a group will be a B.

**Attendance & Participation**: Attendance & participation are required.

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Exams (3@225)</td>
<td>675</td>
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<tr>
<td>Project</td>
<td>140</td>
</tr>
<tr>
<td>Assignments (2)- ERD and Normalization</td>
<td>60</td>
</tr>
<tr>
<td>Attendance &amp; Participation (25 attendance, 25 in-class participation, 50 quizzes, 25 homework)</td>
<td>125</td>
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</tbody>
</table>

**Total** 100%

**Attendance grading**-(% ATTENDANCE TIMES 25)

**In class participation grading**-5—does not PARTICIPATE, 10—OCCASIONAL PARTICIPATION, 20- REGULAR PARTICIPATION -25- EXCEPTIONAL PARTICPATION)

**Quizzes**-Five online quizzes (50 questions x 1.0 points). Multiple attempts allowed. Must be completed by respective due dates.

**Homework**- Several small homework problems will be given during the semester. These will count towards class participation and can be completed by GROUPS OF 2 or 3 (YOUR PROJECT GROUP CAN BE SPLIT INTO TWO SUB-GROUPS. However,
each student should submit these assignments and be prepared to answer questions regarding these assignments in class. Assigned homework (ungraded) must be completed and turned in by due dates. Grading-5 POINTS FOR EACH HOMEWORK SUBMITTED ON TIME- ALL PROBLEMS NEED TO BE SOLVED FOR FULL CREDIT

The final letter grade will be calculated based on the following scale:
A: 90% and above; B: 80-89.9%; C: 70-79.9%; D: 60-69.9%; F: Below 60%.

Other Class Policies

COURSE DELIVERY

This is a face-to-face, in-person class. Students who enroll in face-to-face in-person classes are expected to participate in person — just as they were before the pandemic. Students who believe they need disability accommodations in their face-to-face classes should contact the Office of Disability Services at 704-687-0040 or disability@uncc.edu.

There will be no live streaming or recordings of classes unless the delivery format completely switches to online delivery mode. This will require university approval.

To protect the privacy of other students, students are not permitted to make their own recordings of class sessions or to share or distribute University recordings of class sessions. Students with specific electronic recording accommodations authorized by the Office of Disability Services may record classes; however, the instructor must be notified of any such accommodation prior to recording. Any distribution of such recordings is prohibited. See University Policy 402, Student Education Records (FERPA).

Attendance and Participation Policy

Attendance and participation are expected since they are part of ACTIVE LEARNING. Attendance may be taken RANDOMLY IN SOME CLASSES AND at any point during the class (beginning, middle, and end). Tardiness or early departure are disruptive since they affect others in the class and are, of course, discouraged and will be reflected in the attendance grade as absences. Absence from a class session also implies zero participation for that session.

Absences from class may be excused by the instructor for such reasons as personal illness, religious holidays, or participating as an authorized University representative in an out-of-town event. Whenever possible, students are expected to seek the permission of the instructor prior to absences. Appropriate documentation may be requested.

FALL 2022
Every student is expected to study the textbook and other posted materials (notes, solutions, etc.) prior to each class session. Students must be prepared to answer questions on the “current” topic.

Students should expect a minimum of 2 hours of out-of-class work related to the class for every class meeting hour (https://provost.charlotte.edu/policies-procedures/academic-policies-and-procedures/academic-credit-hour).

Discussion questions and quizzes may be used to evaluate preparation/participation and the results will be combined with the attendance record.

Several small homework assignments given during the semester will count heavily towards class participation, follow along in the class and help you do well on exams. THESE HOMEWORKS ARE TO BE DONE INDIVIDUALLY OR WITH A SUBSET OF YOUR PROJECT GROUP. I MAY CALL STUDENTS TO PRESENT/DISCUSS THEIR ANSWERS.

**Students will be held responsible for any material covered, announcements made, assignments passed out, and any other type of work that they may miss during any absence from class. They are encouraged to consult classmates to catch up.**

**Exams**

Make-up exams will NOT be given except in cases of serious medical emergencies as evidenced by a written doctor's excuse. Permission must be obtained from the professor prior to the scheduled exam time. Students missing an exam with an approved excuse will be allowed to make up the exam with the professor's approval during the final exam period. There will be no make-up for the comprehensive final.

Exam reviews will be available during office hours or by appointment for one week after exam grades are posted.

Exams are a form of intellectual property belonging to those who create them (your professors). Consequently, exams must remain in my possession or under my control at all times. This means that exams may not be taken out of the room or copied. Students are encouraged to review their exams during office hours or by appointment. However, failure to return an exam after taking or reviewing it or removing an exam from my presence at any time or copying an exam will be considered theft of intellectual property. Such action will result in an exam grade of zero and may warrant further disciplinary action.

**Assignments/Projects**

This 3-credit course requires three hours of classroom or direct faculty instruction and six hours of out-of-class student work each week for approximately 15 weeks. Out-of-class work may include but is not limited to: required reading, library research, written assignments, and studying for quizzes and exams.
You must complete each individual project/assignment on your own. Any sharing between students will be considered a violation of the Academic Integrity Code and will result at a minimum in a grade of zero for the project/assignment with a possibility for further disciplinary action.

**Peer reviews will be factored into the individual grades for group work.**

**Due Dates Policy**
A deadline is like a ticket for a cruise. If you arrive after the scheduled departure time, the ship will have sailed without you and your ticket (homework) will be worthless. Written homework must be handed in within 5 minutes of the scheduled start time for the class period on which it is due. Late homework will not be accepted, and you will receive a zero for that assignment. If you know you will miss class, make arrangements to turn in your work ahead of time.

**Grade Appeals Policy**
If you believe that the grade you received on an assignment or an exam was in error or unfair, you can appeal to the professor in writing within 7 calendar days after the grades are posted. The appeal should clearly state the reasons why you believe the grade to be unfair or the nature of the error. Overdue appeals will not be considered.

**Class Behavior Policy**
Disruptive behavior distracts from the ability of others to profit from their in-class experience. Such behavior includes but is not limited to arriving late, leaving early, having Side conversations, making unnecessary comments that add no value to the class, surfing the net, and any activities that negatively impact the ability of other students to learn and/or listen in class.

It is expected that students will behave professionally. Since it is my responsibility to provide an environment that is conducive to learning for everyone in the class, The instructor reserves the right to deduct points and/or take disciplinary action for inappropriate behavior.

**Electronic Devices in Class**
Use of computing, communication, or other devices during the class time for purposes other than those required for the class is prohibited and may result in being asked to leave the classroom for the remainder of the class period. This includes the use of laptops, lab computers, phones or other devices for Internet browsing, game playing, reading news, emailing, texting, chatting, IM, Facebook, or other activities not required for the class. **Cellular phones and other communication devices must be silenced and stored away during class.**

**Academic Integrity**
As a program that helps to create business and government leaders, the College of Business has an obligation to ensure academic integrity is of the highest standards. Standards of academic integrity will be enforced in this course.

University regulations will be strictly enforced in all cases of academic irregularities, cheating or plagiarism or any variations thereof. Students assume full responsibility for the content and integrity of the academic work they submit. The guiding principle of
academic integrity shall be that a student's submitted work, examinations, reports, and projects must be his/her own work.

All UNCC students have the responsibility to be familiar with and to observe the requirements of The UNCC Code of Student Academic Integrity (see the Catalog and also http://integrity.uncc.edu/). This code forbids cheating, fabrication or falsification of information, multiple submission of academic work, plagiarism of written materials and software projects, abuse of academic materials (such as library books on reserve), and complicity in academic dishonesty (helping others to violate the code). Additional examples of violation of the Code include:

- Representing the work of others as your own.
- Using or obtaining unauthorized assistance in any academic work.
- Giving unauthorized assistance to other students.
- Modifying, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit.
- Misrepresenting the content of submitted work.

For this course, it is permissible to assist classmates in general discussions about the homework. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned homework and laboratory exercises. Students may not "work together" on graded assignments unless it is a group assignment. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. If you need help on an assignment, contact your instructor or the TA, not other classmates.

Any further specific requirements or permission regarding academic integrity in this course will be stated by the instructor, and are also binding on the students in this course. Students who violate the code can be punished to the extent of being permanently expelled from UNCC and having this fact recorded on their official transcripts. The normal penalty is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all cases, the course grade is reduced to "F."

If you are unclear about whether a particular situation may constitute an honor code violation, you should meet me to discuss the situation. Feel free to discuss the definition of cheating and/or plagiarism with me if you are unclear on these terms or have questions about the acceptability of a particular type of action.

The instructor may ask students to produce identification at examinations and may require students to demonstrate that graded assignments completed outside of class are their own work.

**Disability Accommodations**

Students in this course seeking accommodations to disabilities must first consult with the Office of Disability Services and follow the instructions of that office for obtaining accommodations. If you have a disability that qualifies you for academic accommodations, please provide a letter of accommodation from the Office of Disability Services. For more information regarding accommodations, please contact the Office of Disability Services at 704.687.4355 or stop by their office in 230 Fretwell.
Diversity
The Belk College of Business strives to create an inclusive academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

Incomplete Grade Policy
Receiving a grade of incomplete ("I") is not based solely on a student’s failure to complete work or as a means of raising his/her grade by doing additional work after the grade report time. An incomplete grade can be given only when a student has a serious medical problem or other extenuating circumstance that legitimately prevents completion of required work by the due date. In any case, for a student to receive an 'I' grade, the student's work to date should be passing, he/she must have completed a significant portion of the course, and the student must provide proper written proof (e.g., a doctor's note) of the extenuating circumstances.

Religious Accommodation for Students Policy
The instructor will observe University Policy 409 (https://legal.uncc.edu/policies/up-409) on matters of religious accommodation. Please note that the procedure prescribed by this policy requires a notice to the instructor prior to the census date of the semester (typically the tenth day of instruction).

Course Changes Policy
The instructor reserves the right to make any necessary changes to the course content, schedule, and policies. Changes will be announced in class and will also be posted online.

HEALTH POLICY
Appropriate University policies relating to health issues such as COVID and other issues will apply. See https://ninernationcares.charlotte.edu/

Students are expected to attend every class and remain in class for the duration of the session when it is safe to do so in accordance with university guidance. Failure to attend class or arriving late may impact your ability to achieve course objectives which could affect your course grade. An absence, excused or unexcused, does not relieve a student of any course requirement. Regular class attendance is a student’s obligation, as is a responsibility for all the work of class meetings, including tests and written tasks. Any unexcused absence or excessive tardiness may result in a loss of participation points.

The final decision for approval of all absences and missed work is determined by the instructor.

Title IX Reporting Expectations
UNC Charlotte is committed to providing an environment free of all forms of discrimination and sexual harassment, including sexual assault, domestic violence, dating violence, and stalking. If you (or someone you know) has experienced or experiences any of these incidents, know that you are not alone. UNC Charlotte has staff members trained to support you in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, helping with civil protective orders, and more.
Please be aware that all UNC Charlotte employees, including faculty members, are expected to relay any information or reports of sexual misconduct they receive to the Title IX Coordinator. This means that if you tell me about a situation involving sexual harassment, sexual assault, dating violence, domestic violence, or stalking, I am expected to report the information to the Title IX Coordinator. Although I am expected to report the situation, you will have options about how your case will be handled, including whether or not you wish to pursue a formal complaint. Our goal is to make sure you are aware of the range of options available to you and have access to the resources you need.

If you wish to speak to someone confidentially, you can contact the following on-campus resources, who are not required to report the incident to the Title IX Coordinator: (1) University Counseling Center (counselingcenter.uncc.edu, 7-0311); or (2) Student Health Center (studenthealth.uncc.edu, 7-7400). Additional information about your options is also available at titleix.uncc.edu under the “Students” tab.

All students are required to abide by the UNC Charlotte Sexual Harassment Policy and the policy on Responsible Use of University Computing and Electronic Communication Resources. Sexual harassment, as defined in the UNC Charlotte Sexual Harassment Policy, is prohibited, even when carried out through computers or other electronic communications systems, including course-based chat rooms or message boards.
### Tentative Class Schedule (Maybe modified at the discretion of the Instructor)

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assigned Reading</th>
<th>Due Dates</th>
</tr>
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<tbody>
<tr>
<td>August 23</td>
<td>Introduction and Course Overview</td>
<td>Ch. 1</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Data Models</td>
<td>Ch. 2</td>
<td>Group Formation</td>
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<tr>
<td>30</td>
<td>Data Models</td>
<td>Ch. 2</td>
<td>Ch. 2 HW, Quiz</td>
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<tr>
<td>Sept. 1</td>
<td>The Relational Database Model</td>
<td>Ch. 2/3</td>
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<tr>
<td>6</td>
<td>The Relational Database Model</td>
<td>Ch. 3</td>
<td></td>
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<tr>
<td>8</td>
<td>ER Modeling</td>
<td>Ch. 3/4 &amp; Apx. A</td>
<td>Ch. 3 HW, Quiz</td>
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<td>13</td>
<td>ER Modeling</td>
<td>Ch. 4 &amp; Apx. E</td>
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<tr>
<td>15</td>
<td>ER Modeling</td>
<td>Ch. 4 &amp; Apx. E</td>
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<tr>
<td>20</td>
<td>Advanced Data Modeling</td>
<td>Ch. 4/5</td>
<td>Ch.4 Hw, Quiz</td>
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<td>22</td>
<td>Exam 1 (Chapters 1-4)</td>
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<td>27</td>
<td>Advanced Data Modeling</td>
<td>Ch. 5</td>
<td>Assignment 1 (ERD)</td>
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<td>29</td>
<td>Normalization</td>
<td>Ch. 5/6</td>
<td>Ch. 5 HW Quiz</td>
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<td>Oct. 4</td>
<td>Normalization</td>
<td>Ch. 6</td>
<td>Project Topic</td>
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<td>11</td>
<td>Fall Break</td>
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<tr>
<td>13</td>
<td>Normalization Assignment and Project</td>
<td>Ch. 6</td>
<td>Ch. 6 HW, Quiz</td>
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<td>25</td>
<td>Catchup and Review</td>
<td>Ch. 6</td>
<td>Assign. 2 (Normalization) &amp; Peer Evals- Due</td>
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<td>27</td>
<td>Exam 2 (Chapters 5, 6; 9 as bonus)</td>
<td>Ch. 6</td>
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<td>Nov. 1</td>
<td>SQL Lab</td>
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<td>3</td>
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<td>SQL Lab</td>
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<td>Database Initial Study</td>
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<td>Due on the 10th</td>
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<td>22</td>
<td>Review /Practice Exam</td>
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<td>Exam 3 (SQL)</td>
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<td>Final Project Version 2 &amp; Team Evals</td>
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<td>December 13</td>
<td>Final Exam &amp; Make-Up Exams (8-10.30 am)</td>
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