Faculty: Dr. Albert Park  
Email: al.park@uncc.edu  
Office: Woodward 310H  
Phone: 704-687-8668  
Office Hours: Wednesday, 2:30 pm to 4:00 pm  
TA: Jon-Michael Hancock, B.S.  
TA Email: jhanco18@uncc.edu  
TA Office Hours: Wednesday, 2:30 pm to 4:00 pm  
Class: Online  
Term: Fall 2020  
Location: Online

Course Description:
Database is an essential step toward managing collection of data in an electronic format. The course provides students with the fundamental concepts of database management systems. We will learn this by identifying database needs and requirement specification, as well as designing and implementing a relational database. We will learn how to (i) execute SQL (Structured Query Language) statements, (ii) design and model database management systems, (iii) analyze data, (iv) manage data via database management systems. Class projects will provide students with database development, management, integration, and transaction control experience.

Online Class: This is an online class, which means classes will be offered via online and will not meet in class. (3 credit hours)

Pre- or Co-requisite:  
Good standing students.

Meeting Times:  
N/A
Course Objectives:
At the end of this course, you will be able to:
- Execute SQL (Structured Query Language) statements
- Design database management systems using UML (Unified Modeling Language)
- Analyze data via database management systems
- Manage data via database management systems

Like any other skill, your understanding of these concepts will develop only through extensive reading, writing, and practice.

Topic Outline:
- Foundational SQL (Queries)
- Intermediate SQL (Advanced Queries, Data Manipulation)
- Triggers and Stored Procedures
- Conceptual Database Design and Modelling
- Relational Design
- Constraints and Integrity
- OLAP
- Data Provenance
- Index and Transaction
- DB Admin
- NOSQL

Required Materials:

Grading Criteria:

<table>
<thead>
<tr>
<th>Course Element</th>
<th>Percentage</th>
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<tr>
<td>Mid-term: Mid-term will be given to assess concepts covered in the first half of the semester.</td>
<td>30%</td>
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<tr>
<td>Projects: Two projects will give you the opportunity to explore one or more concepts in more depth and apply these concepts in small realistic applications. Project 1 (10%), Project 2 (20%)</td>
<td>30%</td>
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<td>Quizzes: Quiz will be given to assess concepts covered in a module</td>
<td>15%</td>
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<tr>
<td>Labs: The labs will give you the opportunity to explore one or more concepts in more depth and apply these concepts in small realistic applications.</td>
<td>15%</td>
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<td>Assignments: If assignments are submitted after the deadline but no later than 48 hours, 50% penalty will be applied. No points after.</td>
<td>10%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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Grading Scale:

A 100 % to 90.0%
B <90.0 % to 80.0%
C <80.0 % to 70.0%
D <70.0 % to 60.0%
F <60.0 % to 0.0%

Course Policies:

Late Policy:
Your assignments are considered late if they are not completed by the stated due date and time. If your assignment is late, you will usually have seven additional days to complete it for late credit (depending on whether anything contrary has been stated in the syllabus or assignment instructions). Late credit equals a 20 point (or approximately a 20%) reduction to the grade you would have received. For example, if you would have received a grade of 90% for completing a particular assignment, you will receive a grade of 70%.

Extensions:
Should you desire an extension for some reason, you must discuss it with me before the assignment is due.

Syllabus Revision:
The instructor reserves the right to alter this syllabus based on best practices that fit changing circumstances.

Classroom Conduct:
I will conduct this class in an atmosphere of mutual respect. I encourage your active participation in class discussions. Each of us may have strongly differing opinions on the various topics of class discussions. The conflict of ideas is encouraged and welcome. The orderly questioning of the ideas of others, including mine, is similarly welcome. However, I will exercise my responsibility to manage the discussions so that ideas and argument can proceed in an orderly fashion. You should expect that if your conduct during class discussions seriously disrupts the atmosphere of mutual respect I expect in this class, you will not be permitted to participate further.

Academic Integrity:
All students are required to read and abide by the Code of Student Academic Integrity. Violations of the Code of Student Academic Integrity, including plagiarism, will result in disciplinary action as provided in the Code. Students are expected to submit their own work, either as individuals or contributors to a group assignment. Definitions and examples of plagiarism and other violations are set forth in the Code. The Code is available from the Dean of Students Office or online at: http://legal.uncc.edu/policies/up-407 Faculty 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.
Course Credit Workload:
This 3-credit course requires 3 hours of classroom or direct faculty instruction a week and 6 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 discussion posts.

Non-Discrimination:
All students and the instructor are expected to engage with each other respectfully. Unwelcome conduct directed toward another person based upon that person’s actual or perceived race, actual or perceived gender, color, religion, age, national origin, ethnicity, disability, or veteran status, or for any other reason, may constitute a violation of University Policy 406, The Code of Student Responsibility. Any student suspected of engaging in such conduct will be referred to the Office of Student Conduct.

Title IX:
Title IX 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 legal protective orders, and more. Please be aware that many UNC Charlotte employees, including all faculty members, are considered Responsible Employees who are required 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 must report the information to the Title IX Coordinator. Although I have to report the situation, you will still 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 any of 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); (2) Student Health Center (studenthealth.uncc.edu, 7-7400); or (3) Center for Wellness Promotion (wellness.uncc.edu, 7-7407). Additional information about your options is also available at titleix.uncc.edu under the “Students” tab.

Religious Accommodation:
Students who, acting in accordance with this Policy, miss classes, examinations or other assignments because of a religious practice or belief must be provided with a reasonable alternative opportunity to complete such academic responsibilities. It is the obligation of students to provide faculty with reasonable notice of the dates of religious observances on which they will be absent by submitting a Request for Religious Accommodation Form to their instructor prior to the census date for enrollment for a given semester. The census date for each semester (typically the tenth day of instruction) can be found in UNC Charlotte’s academic calendar.

Student Grievances:
Student Grievances Students enrolled in courses at the University of North Carolina at Charlotte who would like to file a complaint regarding their experience may do the following: 1. Refer to the UNC Charlotte Student Grievance Procedure. Students may also contact UNC Charlotte’s regional accrediting agency, the Southern Association of Colleges and Schools Commission on
Colleges. 2. Students residing outside of North Carolina while attending UNC Charlotte may file a complaint in their state of residence. As required by federal regulations, students are directed to the list of resources here, compiled and updated by the State Higher Education Executive Officers.

**Withdrawals:**
Students are expected to complete all courses for which they are registered at the close of the add/drop period. If you are concerned about your ability to succeed in this course, it is important to make an appointment to speak with me as soon as possible. The University policy on withdrawal allows students only a limited number of opportunities available to withdraw from courses. It is important for you to understand the financial and academic consequences that may result from course withdrawal.

**Incompletes:**
The grade of I is assigned at the discretion of the instructor when a student who is otherwise passing has not, due to circumstances beyond his/her control, completed all the work in the course. The missing work must be completed by the deadline specified by the instructor, and no later than 12 months. If the I is not removed during the specified time, a grade of F, U, or N, as appropriate is automatically assigned. The grade of I cannot be removed by enrolling again in the same course, and students should not re-enroll in a course in which they have been assigned the grade of I. University policy addressing Incompletes.

**Use of Canvas:**
With the exception of the textbook, all required course material is posted in Canvas, including a copy of the syllabus. Be sure to refer to your schedule so you come to class with the correct material.
We will also use Canvas for all homework/lab/project submissions.

**Student Support:**

**Disability Support Services:**
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. The Office of Disability Services works with current undergraduate and graduate students along with prospective students to ensure equal access to UNC Charlotte’s campus and educational programs.

All services are dependent upon verification of eligibility. Once approved for services, students receive accommodations which are based upon the nature of an individual’s disability and documented needs. Students are strongly encouraged to register or check-in for their accommodations with a Disability Services counselor as soon as they have registered for classes. Accommodations are not retro-active and will not begin until the student notifies his or her faculty by providing the Letter of Accommodation.
Please visit the Office of Disability Services at for additional resources, email questions to disability@uncc.edu, or call 704-687-0040 for more information.

**Student Support Services:**
Be sure to take advantage of the wealth of resources and support available at UNC Charlotte. Some of the resources available to you include the University Writing Resource Center, University Counseling Center, and the J. Murrey Atkins Library.

- University Center for Academic Excellent (UCAE) | (704) 687 7837 | uncc-ucae@uncc.edu
- University Writing Resources Center (WRC) | 704-687-1899 | wrchelp@uncc.edu
- Veteran Student Services | 704-687-5488 | veteranservice@uncc.edu
- University Counseling Center | 704-687-0311
- Multicultural Resource Center | 704-687-7121 | mrc@uncc.edu
- List of computer labs on campus
- Atkins Library Laptop Lending program