Instructor: Dr. Monica Johar
Email: msjohar@uncc.edu
Office Location: Friday 352C
Office Hours: Tuesday and Thursday: 1:30 PM to 2:30 PM (By appointment)
Office hours zoom: https://uncc.zoom.us/j/98776145415?pwd=eldrSUxMOWUyRmxwUithWmQ2UElhZz09
Password: UNCC
Teaching Assistant: Abhijith Chigurupati
Email: achiguru@uncc.edu
TA Office Hours: Wednesday, 11:00 AM to 12:00 AM, Friday
Office Hours: Wednesday link: https://uncc.zoom.us/j/92646070368
Friday link: https://uncc.zoom.us/j/95479328555 (By appointment only)
Course: MBAD 6201/ DSBA 6201
Website: canvas.uncc.edu
Class Hours: Wednesday, 12:30 PM to 3:15 PM
Venue: Center City 504
Class Zoom link: https://uncc.zoom.us/j/93303234702?pwd=TUtDZW9IUW8wV3NndUtNbdGQmdjUt09
Pass Code: 6201

Course Materials
Handouts, Power-point Slides, and Assignment Help documents will be posted on Canvas.
You can print the posted material and bring them to class. Please note that I will not provide printed copies of any of the posted materials in the class.

Course Objectives:

As we transition from an industrial to a knowledge economy, an organization's ability to create and successfully leverage data and knowledge assets will be an important competitive factor.

Data management includes an understanding of issues relating to modeling, using, securing, and sharing the organizational data resources. This course will focus specifically on the understanding of data warehousing, data mining (including rule-based systems, decision trees etc.) and other knowledge management concepts.

Business intelligence (BI) is a broad category of applications and technologies for gathering, storing, analyzing, and providing access to data to help enterprise users make better business decisions. This course will cover in depth major aspects of Business Intelligence; statistical methods such as Regression, Logit, Clustering, Decision trees to analyze raw data and to gain key insights.

Knowledge management is an emerging discipline of how to effectively deploy technology, organizational practices, and processes to increase an organization's return on its knowledge capital.
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This course will examine data and knowledge management from the organizational, technological, and management perspectives.

**Software:** Apportio, Python, SAS 9.4, and SAS Enterprise Miner

**Tentative course schedule**

This is a tentative schedule and is subject to change. Please refer to Canvas for the most up-to-date schedule.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Homework DUE</th>
<th>Mode of Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>12 – Jan Introduction and course overview</td>
<td></td>
<td>Online</td>
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<tr>
<td></td>
<td></td>
<td>Regression</td>
<td>Online</td>
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<tr>
<td>Week 2</td>
<td>19 – Jan Regression</td>
<td></td>
<td>Online</td>
</tr>
<tr>
<td>Week 3</td>
<td>26 – Jan Data Warehousing</td>
<td><a href="#">Regression Assignment Due Jan 25</a></td>
<td>In class</td>
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<tr>
<td>Week 4</td>
<td>2 – Feb Data Warehousing</td>
<td></td>
<td>In class</td>
</tr>
<tr>
<td>Week 5</td>
<td>9 – Feb Decision Table</td>
<td></td>
<td>In class</td>
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<tr>
<td>Week 6</td>
<td>16 – Feb ROC</td>
<td><a href="#">Data Warehousing Assignment Due Feb-5</a></td>
<td>In class</td>
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<tr>
<td>Week 7</td>
<td>23 – Feb Exam I (Will include everything till ROC Curves)</td>
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<td>In class</td>
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<tr>
<td>Week 8</td>
<td>2 – Mar Decision Tree</td>
<td><a href="#">ROC Assignment Due Feb-26</a></td>
<td>In class</td>
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<tr>
<td>Week 9</td>
<td>9 – Mar Spring Recess- No Class</td>
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<td>In class</td>
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<tr>
<td>Week 10</td>
<td>16 – Mar Decision Tree</td>
<td></td>
<td>In class</td>
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<td></td>
<td></td>
<td>Guest Speaker</td>
<td>In class</td>
</tr>
<tr>
<td>Week 11</td>
<td>23 – Mar LOGIT</td>
<td><a href="#">Decision Tree Assignment – Due Mar 19</a></td>
<td>In class</td>
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<tr>
<td>Week 12</td>
<td>30 – Mar Clustering</td>
<td><a href="#">LOGIT Assignment Due- Mar 26</a></td>
<td>In class</td>
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</tbody>
</table>

SAS Enterprise Miner Lab Class

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<table>
<thead>
<tr>
<th>Week 13</th>
<th>4 – April</th>
<th>Clustering</th>
<th>In class</th>
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</thead>
<tbody>
<tr>
<td>Week 14</td>
<td>11 – April</td>
<td>Association Rule Mining</td>
<td>Clustering &amp; Clustering in SAS</td>
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<td>Guest Speaker</td>
<td>Assignment Due - April 9</td>
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<tr>
<td>Week 15</td>
<td>18 – April</td>
<td>Association Rule Mining</td>
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<td>SAS Demo on Association Rule Mining</td>
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<tr>
<td>Week 16</td>
<td>25 – April</td>
<td>Neural Networks</td>
<td>Association Rule Mining</td>
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<td>Assignment Due - April 21</td>
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<tr>
<td>Week 17</td>
<td>1 May</td>
<td>Exam II (Everything covered after Exam I)</td>
<td>SAS Project (Association Rule Mining) &amp; (Predictive Modeling) Due – 5 May</td>
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<td></td>
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<td></td>
<td>In class</td>
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<tr>
<td>Week 18</td>
<td>11 May</td>
<td>Optional Comprehensive Final (Entire course Material)</td>
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<td></td>
<td>In class</td>
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**Grading:** We are planning to use Canvas to help with the course and grading

- **Exams:** 550
- **Assignments (Total 8 excluding SAS project):** 300
- **SAS Predictive Modeling:** 80
- **SAS Association Rule Mining:** 20
- **Class Participation:** 50
- **Total:** 1000

Grades will be posted on Canvas after each exam or assignment is graded. Access to your grades will be through Canvas.

**Final grades will be based on the following scale:** A >899, B-800-899, C-700-799, D-600-699, F <600. In addition, students are expected to receive an average of 65% in the three exams in order to receive a grade of C or better.

**Assignments:**

*Problem Solving Assignments*
These assignments will involve the use of concepts discussed and taught in class. **Assignments must be submitted through Canvas; submission of electronic copies by e-mail or disk is not acceptable. Your NAME and ID should appear on the top of each page that you submit.** All assignments should be completed on time and submitted on Canvas before the submission deadline as shown on Canvas.
Assignments submitted after the deadline will be considered late. **No late submissions will be accepted on these assignments.**

**SAS - Assignments**
These assignments will be submitted on Canvas on the due date. These assignments will involve the use of SAS Enterprise Guide and Enterprise Miner Software. We will be using **SAS Enterprise Miner** for this class. Detailed instructions that are required to complete these assignments will be made available to the students. These are NOT group assignments. A penalty of **20% of the assignment value per day** (including weekends) is assessed on late assignments beginning on the day due.

All changes in assignments or schedules will be posted on Canvas. It is your responsibility to keep up with the changes that are posted on Canvas.

**Lab Sessions:**
Lab sessions will be conducted during class hours for some of the topics posted in canvas. We will be using SAS 9.4 and SAS Enterprise Miner for Regression, Clustering and the projects. Instructions and demos required for the class will be available to the students. **Students will be performing the lab sessions through Apporto.** (uncc.apporto.com / apporto.uncc.edu)

**Questions on Exams:**
Questions on the Exams will be taken from the assigned readings of texts, class lectures and assignments. If the answer to an Exam question is disputed, the student should submit a written appeal, citing the source (text page) to the instructor. The instructor will take these appeals into account during grading.

**Missed Exams**
If an Exam is missed, a **COMPREHENSIVE** Exam covering all material for the course will be given during the final exam week. **Please note that you are allowed to miss one and only one exam,** which can be compensated by taking the comprehensive final. For students missing more than one exam, the comprehensive will count towards one exam only.

**THERE WILL BE NO MAKE-UP EXAM FOR A MISSED COMPREHENSIVE EXAM**

**The Internet:**
You will need a **49er express account** to access Canvas. To get your 49er express account (if you don’t already have one) contact the information technology services. If you already have a 49er express account, check and make sure that it works correctly.

**Working Together:**
You may work together when learning how to use computers and applications. Canvas has a message board, and you are encouraged to use the bulletin board for clarification or questions that can be answered by the instructor or other students. Each student, however, is expected to do the assignments on their own. **Copying the computer files of some other student amounts to scholastic dishonesty** (see below) and will be subject to disciplinary actions that could result in a failing grade or expulsion from the University.
Attendance

Regular attendance is necessary for doing well in this course. You are expected to attend punctually all scheduled sessions and are responsible for completing the work from all of the class meetings. Attendance will be taken at random during the semester and will be counted towards class participation points. You are responsible for any material covered, announcements made, assignments passed out, and any other type of work you may miss during any absence from class. The quizzes, mid-term exams and final exam may contain material that is not in the slides or handouts but was covered in the class.

Tardiness or early departure is disruptive and is, of course, strongly discouraged.

Class behavior

Inappropriate behavior in class distracts from the ability of others to profit from their in-class experience. Such inappropriate behavior includes arriving late, leaving early, talking, surfing the net during the class, and so on. Rude and inappropriate behavior will not be tolerated. Since it is my responsibility to provide an environment that is conducive to learning for everyone in the class, I will deduct points from the grade of any student who chooses to repeatedly distract others. In particularly egregious cases, I will have the student permanently removed from the class.

Under no circumstances will students be permitted to spend their class time working on assignments for other classes, checking e-mail, surfing the Web, or printing out homework. Attempts to engage in such behavior will be reflected in lower grades and may lead to removal from the course.

Laptop Policy

Beginning Fall 2021, all students taking classes in the Belk college of Business are required to have their own personal laptop computer. Students will be informed of the needed software on the syllabus for each course. However, some applications used in selected courses are not available natively in a Mac format. If a student prefers an apple laptop, student will be responsible for installing windows 10.

More on this policy: https://belkcollege.charlotte.edu/laptop-policy

Electronic Devices in Class

Use of cellular phones, pagers, CD players, radios, and similar devices are prohibited in the classroom and laboratory facilities. Cellular phones MUST BE TURNED OFF DURING CLASS and students are strongly discouraged from checking their cell-phone messages when the class in progress. Pagers must be set to vibrate, rather than beep. Use of instant messaging, email or other communication technologies during class time is prohibited. You may use a laptop to take notes during the class, but this should be done without distracting other students and without distracting you from the topic of discussion. Calculators and computers are prohibited during examinations and quizzes, unless specifically allowed by the instructor. I will take very seriously any complaints from fellow students who are distracted by non-class related use of electronic devices.
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devices by any student.

Students violating these policies will be marked for disruptive behavior and may be asked to leave the class. Their grade will also be affected according to the rules of class participation points (pages 2 and 3 of this document).

**Accommodation for Disabilities**

In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to “reasonable accommodations.” Please notify the instructor during the first week of class of any accommodations needed for the course.

**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 that of the student's 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). 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.

For this class, it is permissible to assist classmates in general discussions of computing techniques. General advice and interactions 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. Such collaboration constitutes cheating, 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
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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 with the instructor to discuss the situation.

If you do not have a copy of the code, you can obtain one from the Dean of Students Office.

Students are expected to **report cases of academic dishonesty** they become aware of to the course instructor who is responsible for dealing with them.

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.

**Introduction to Canvas:**

Canvas is a software tool for the use of instructors, teaching assistants (TA) and students. It is accessible from the Internet both on and off campus and has the following features:

1. **Syllabus:** A current copy of the course syllabus.
2. **Files:** Notes provided from the textbook vendor and the instructor.
3. **Announcements:** Instructor/TA can communicate with students about course activities and post interesting course-related topics
4. **Discussions:** Students can post any course-related queries here.
5. **Grades:** You can access your grades here. If you have questions about your grades, communicate through Canvas mail with the instructor. Check the bulletin board to see if there is a message to the class about the posting of grades.
6. **Assignments:** Assignments will be posted here and can be downloaded to your PC. Each assignment will have a deadline. This is the latest time the assignment can be submitted without penalty. You can upload your assignment file many times and submit it many times before the given deadline. After the deadline, your assignment will be frozen and you will not be able to change your assignment (if it is turned in before the deadline). If you submit your assignment after the deadline it will be considered late. Once your assignment is graded, comments on your assignment will appear along with your grade on Canvas.

**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...
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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 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 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.

**Face coverings in classrooms and labs:** It is the policy of UNC Charlotte for the Spring 2022 semester that as a condition of on-campus enrollment, all students are required to properly wear CDC-compliant face coverings while in buildings including in classrooms and labs. Failure to comply with this policy in the classroom or lab may result in the student being asked to leave the classroom. If a student refuses to wear a mask and also refuses to leave the classroom, the student will be referred to the Office of Student Conduct and Academic Integrity for charges under the Code of Student Responsibility.

**Absenteeism during Covid-19:** 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 regarding COVID-19. An absence, excused or unexcused, does not relieve a student of any course requirement. For absences related to COVID-19, please adhere to the following:

- **Do not come to class if you are sick.** Please protect your health and the health of others by staying home. Contact your healthcare provider if you believe you are ill.
- **If you are sick:** If you test positive or are evaluated by a healthcare provider for symptoms of COVID-19, complete this form to alert the University. Representatives from Emergency Management and/or the Student Health Center will follow up with you as necessary, and your instructors will be notified.
- **If you have been exposed** to COVID-19 positive individuals and/or have been notified to self-quarantine due to exposure, complete this form to alert the University. Representatives from Emergency Management and/or the Student Health Center will follow up with you as necessary, and your instructors will be notified.

To return to class after being absent due to a COVID-19 diagnosis or due to a period of self-quarantine, students should submit an online request form to Student Assistance and Support Services (SASS). Supporting documentation can be attached directly to the request form and should be from a student's health care provider or the Student Health Center, clearly indicating the dates of absences and the date the student intends to return to class.

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is able to return to class. Instructors will be notified of such absences.

If you are absent from class as a result of a COVID-19 diagnosis or quarantine, please notify your instructor immediately and seek instructions to help you continue to make progress in the course. The specific instructions for this situation will be provided on a case-by-case basis. The final decision for approval of all absences and missed work is determined by the instructor.

**Student Support:** The details of student support resources available are provided at the following links.

- **Academic support:** [https://ninernationcares.uncc.edu/students/academic-support](https://ninernationcares.uncc.edu/students/academic-support).
- **Health support:** [https://ninernationcares.uncc.edu/health-support-services](https://ninernationcares.uncc.edu/health-support-services).

**Copyright Ownership in Course Materials**

The lectures and course materials, including presentations, tests, exams, outlines, and similar materials, are protected by copyright. The instructor is the exclusive owner of copyright in those materials created by the instructor. You are encouraged to take notes and make copies of course materials for your own educational use. However, you may not, nor may you knowingly allow others to reproduce or distribute lecture notes and course materials publicly without express written consent of the instructor. This includes providing materials to commercial course material suppliers such as Course Hero and other similar services. Students who publicly distribute or display or help others publicly distribute or display copies or modified copies of an instructor's course materials may be in violation of University Policy 406, The Code of Student Responsibility. Similarly, you own copyright in your original papers and exam essays. If the instructor is interested in posting your answers or papers on the course web site, the instructor will obtain your written permission.

**Other Information**

- Students are responsible for **all** announcements made in class or announced via email. The instructors may send some information via Canvas announcements. It is the students’ responsibility to keep up-to-date on the class-related information and to check their @uncc.edu email regularly.
- The instructors will discuss grades **only** in person (and not via telephone or e-mail) and only with the student (not with parents, spouses, etc). The instructors may not answer student e-mails other than related to scheduling appointments. Office hours are posted in the syllabus on page 1.
- The instructors may **modify the class schedule and syllabus** during the course of the semester depending upon the progress of the class.

*The University of North Carolina Charlotte and the Belk College of Business strive 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.*