Fall 2015

MATH 6301

Linxiong Li

University of New Orleans
MATH 6301
APPLIED Statistics

Instructor: Dr. Linxiong Li
Classroom: N/A
Class time: Online
Office Hours: N/A
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Email: lixi1@uno.edu


Coverage: This course will focus on data analysis and will include the following topics:
I. Basic properties of distributions
II. Estimation and testing
III. Nonparametric methods
IV. Analysis of variance
V. Correlation and regression analysis
VI. Real world applications

Some further sections may also be added to this list.

Course prerequisites: Math 2314/2785.

Grading: There will be homework, a midterm exam and a final exam. See the Tentative Schedule below for exam dates. The homework carries a total of 30% of the final grade, the midterm exam carries 30%, and the final exam carries 40%. The overall grading scale is

A: 85+;   B: 75-84;   C: 65-74;   D: 55-64;   F: < 55.

Note: In general, no make-up exams will be given. The final exam is cumulative.

Student learning outcomes: By the end of the semester, you should be able to use SAS to analyze data including interval estimation, hypothesis testing, ANOVA, multiple sample comparison, nonparametric methods, linear combinations of means, linear regression, introduction to categorical data analysis, etc.
More information and expectation: Homework will be assigned for each chapter and will be collected and graded. You are also expected to turn in all assignments on time; penalties will be given for late assignments.

Computer labs: Statistical package SAS is available in rooms 105, 107, 110, 200, and 320 of the math building. Room 317 is open 24/7, and the other labs are 8:30 am – 4:30 pm.

Student conduct: The University of New Orleans (UNO) is a multicultural community composed of diverse students, faculty and staff. UNO will not tolerate discrimination or harassment of any person or group of persons based on race, color, religion, sex, disability, national origin, age, sexual orientation, marital or veteran status or any other status protected by law. Each member of the university is held accountable to this standard, which is strongly reflected in this code.

Academic integrity: Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at http://www.studentaffairs.uno.edu.

Accommodations for Students with Disabilities: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to http://www.ods.uno.edu.

Verification for Online Students

To ensure academic integrity, all students enrolled in distance learning courses at the University of New Orleans may be required to verify their identity when completing exams or other high-stakes assignments. At the discretion of the faculty member teaching the course, verification may include on-campus proctored examinations, off-site or online proctored examinations, or other reasonable measures to ensure student identity. If students cannot attend an on-campus proctored exam, UNO partners with ProctorU, a live, online proctoring service that allows students to complete exams from any location using a computer, webcam, and reliable internet connection. Verification measures for this course are identified below and any fees associated are the responsibility of the student.
ProctorU scheduling information and fees can be found at http://www.uno.edu/distance-education/online-testing.aspx.

Attendance: N/A

Tentative schedule:

<table>
<thead>
<tr>
<th>WEEK OF</th>
<th>SECTIONS</th>
<th>OBJECTIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 19</td>
<td>1.1-1.3</td>
<td>Basic concepts</td>
</tr>
<tr>
<td>Aug. 24</td>
<td>1.4-1.5, 2.1</td>
<td>more concepts</td>
</tr>
<tr>
<td>Aug. 31</td>
<td>2.2-2.6</td>
<td>understand t-test</td>
</tr>
<tr>
<td>Sept. 7</td>
<td>3.1-3.4</td>
<td>more about t-test</td>
</tr>
<tr>
<td>Sept. 14</td>
<td>3.5, 3.6, 4.1, 4.2</td>
<td>learn alternatives to t-test</td>
</tr>
<tr>
<td>Sept. 21, 28</td>
<td>4.3-4.5, 5.1-5.3</td>
<td>from 2-sample to multisample</td>
</tr>
<tr>
<td>Oct. 5, 12</td>
<td>5.4-5.6, 6.1-6.3</td>
<td>learn multiple comparison</td>
</tr>
<tr>
<td>Oct. 19, 26</td>
<td>6.4-6.5, 7.1-7.3</td>
<td>learn simple regression</td>
</tr>
<tr>
<td>Nov. 2</td>
<td>7.4, 7.5, 13.1-13.3</td>
<td>more regression, 2-way ANOVA</td>
</tr>
<tr>
<td>Nov. 9, 16</td>
<td>13.4-13.5, 18.1-18.2</td>
<td>Proportions and odds ratio</td>
</tr>
<tr>
<td>Nov. 23, 30</td>
<td>18.3-18.4, chapter 19</td>
<td>learn data analysis using tables of counts</td>
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</tbody>
</table>

Midterm Exam

Important Dates*

- Last day to adjust schedule w/out fee ................. 08/18/2015
- Semester Classes Begin .................................. 08/19/2015
- Last day to adjust schedule w/fee, or withdraw with 100% refund ........................................ 08/25/2015
- Last day to apply for December commencement ...... 09/25/2015
- Final day to drop a course or resign................... 10/14/2015
- Mid-semester examinations ............................... 10/05-10/09/2015
- Final examinations ........................................ 12/07-12/11/2015
- Commencement .............................................. 12/18/2015

*Note: check Registrar’s website for Saturday and A/B sessions, and for items not listed here: http://www.registrar.uno.edu

Fall Semester Holidays

- Labor Day ...................................................... 09/07/2015
- Mid-semester break ........................................ 10/15-10/16/2015
- Thanksgiving .............................................. 11/26-11/27/2015
Withdrawal Policy – Undergraduate only

Students are responsible for initiating action to resign from the University (withdraw from all courses) or from a course on or before dates indicated in the current Important dates calendar. Students who fail to resign by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester and be graded as if they were in attendance. Failure to attend classes does not constitute a resignation. Check the dates on the Registrar’s website, http://www.registrar.uno.edu. Please consult The Bulletin for charges associated with dropping and adding courses.

Incomplete Policy – Undergraduate only

The grade of I means incomplete and is given for work of passing quality but which, because of circumstances beyond the student’s control, is not complete. The issuance of the grade of I is at the discretion of the faculty member teaching the course. For all graduate and undergraduate students, a grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the Important Dates Calendar) of the next regular semester including summer semester.

Repeat Policy

When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability for degree credit. A student who has earned a C or better in a course may not repeat that course unless, (1) the catalog description indicates that the course may be repeated for credit, or (2) the student's Dean gives prior approval for documented extenuating circumstances.

Academic Dishonesty Policy


Safety Awareness Facts and Education

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://www.uno.edu/student-affairs-enrollment-management/

UNO Counseling Services and UNO Cares
UNO offers care and support for students in any type of distress. Counseling Services assist students in addressing mental health concerns through assessment, short-term counseling, and career testing and counseling. Find out more at http://www.uno.edu/counseling-services/. First-year students often have unique concerns, and UNO Cares is designed to address those students succeed. Contact UNO Cares through http://www.uno.edu/fye/uno-cares.aspx.

Emergency Procedures

Sign up for emergency notifications via text and/or email at E2Campus Notification: http://www.uno.edu/ehso/emergency-communications/index.aspx. All emergency and safety procedures are explained at the Emergency Health and Safety Office: http://www.uno.edu/ehso/.

Diversity at UNO

As the most diverse public university in the state, UNO maintains a Diversity Affairs division to support the university’s efforts towards creating an environment of healthy respect, tolerance, and appreciation for the people from all walks of life, and the expression of intellectual point of view and personal lifestyle. The Office of Diversity Affairs promotes these values through a wide range of programming and activities. http://diversity.uno.edu/index.cfm

Learning and Support Services

Help is within reach in the form of learning support services, including tutoring in writing and math and other supplemental instruction. Visit the Learning Resource Center in LA 334, or learn more at http://www.uno.edu/lrc/.
Affirmative Action and Equal Opportunity

UNO is an equal opportunity employer. The Human Resource Management department has more information on UNO’s compliance with federal and state regulations regarding EEOC in its Policies and Resources website: http://www.uno.edu/human-resource-management/policies.aspx