STT 215 Syllabus (Fall 2018)

Instructor: Dr. Cuixian Chen  
Office: Osprey Hall 1003-A  
Office Phone: 962-3686

Email: chenc@uncw.edu  
Class Web: http://people.uncw.edu/chenc/STT215/STT215_Index.html

Office Hours: MW 1:00 - 2:00pm, or by appointment. Stop-by during my office hours are welcome.

Course Meeting Times:


Required Text:  

MyStatLab: http://www.mystatlab.com/. Note: we will need the textbook for reference and MyStatLab for your HW/Quiz/Tests.

Extra Note on Textbook & MyStatLab:

2) Pearson: MyStatLab (with EBook): $104.95; Students may request EXTRA loose-leaf with free shipping-- $44.97 (Price estimated on 8/20/2018).

Required Calculator: TI-84 is required. Calculator is needed for every class and for every HW/Quiz/Test.

Description of Course Content:

Collection, tabulation and graphical representation of data. Measures of location and variation, measures of association, correlation and regression, Normal distributions, sampling distribution, confidence intervals and tests of hypotheses. Health care statistics, elementary computer skills in analysis of data and interpretation of computer outputs.

Student Learning Outcomes:

1. Describe the variability inherent in univariate and bivariate data in numerical, graphical and written form.
2. Explain the role randomization plays in designed experiments and in standard sampling methods.
3. Compute and interpret probabilities of events in random phenomena and of common sampling distributions.
4. Compute and interpret confidence intervals in one-sample and two-sample cases.
5. Construct hypotheses testing in one-sample and two-sample cases, and interpret the results utilizing p-values to draw statistical/non-statistical conclusions.
6. Utilize technology to perform basic analyses and simulations.

Exams: We will have three full period exams and a comprehensive final exam. Make-up exam is only given in the case of illness or emergence. Instructor has to be notified on or before exam date. A missed exam for any other reasons will be replaced by the Final exam. NO EXCEPTION!!

• Exams mostly consist of questions based on the topics covered in the lectures and exercises in homework and quizzes.

Homework and Quizzes: Homework/Quiz are an essential part of this course, and it will be assigned on a regular basis. The homework and quizzes are composed of online questions from MyStatlab (http://www.mystatlab.com/). There are assignments (HW/Quiz) due every Sunday by 11:59pm.
• You may try as many times as you want for the homework questions first, and the maximum number of tries for quizzes is five.
• Note: HWs prepare you to perform better in quizzes. Only after you pass the HWs, you can start to work on quizzes.

NO late homework/Quiz will be accepted. There is NO make-up for homework/quizzes. Students are expected to bring their calculators for every class and every exam. There will be NO sharing of calculators. For each missed quizzes or homework, the negative number of problems assigned will be recorded, instead of zero or missing.

Grading (original):

<table>
<thead>
<tr>
<th>Category</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>8%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>Exams (3)</td>
<td>18% each (totally 54%)</td>
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<tr>
<td>Comprehensive Final Exam</td>
<td>23%</td>
</tr>
</tbody>
</table>

Grading (revised):

<table>
<thead>
<tr>
<th>Category</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>8%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>22%</td>
</tr>
<tr>
<td>Exams (2)</td>
<td>21% each (totally 42%)</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>28%</td>
</tr>
</tbody>
</table>

92% <= A <= 100%; 90% <= A- < 92%; 87% <= B+ < 90%; 82% <= B < 87%; 80% <= B- < 82%; 77% <= C+ < 80%; 72% <= C < 77%; 70% <= C- < 72%; 67% <= D+ < 70%; 60% <= D< 67%; 58% <= D- < 60%; F: under 58%.

For grades with D- and up, I may increase your grade (eg. give you a B+ instead of B) if your class attendance, participation, and effort have been exceptional throughout the semester. (No missing on classes, HWs, Quizzes, and Exams).

Attendance: You are expected to attend every class on time. Active involvement in class will greatly enhance your learning and make it far easier. If you miss a class for any reason, it is your responsibility to learn the material on your own. Attendance is expected unless extreme circumstances. Documentations MUST be provided for any absence excuses for illness or emergence. For any other reasons, absences will NOT be excused.

Three absences are considered excessive. After two absences, for each extra absence, ONE point will be taken off from your final cumulative score. If a student misses SEVEN classes or more during the semester, the student’s course grade is F.

Course Outline:

Chapter 1: Statistics: The art and science of learning from data
Chapter 2: Exploring data with graphs and numerical summary
Chapter 3: Association: Contingency, Correlation and Regression
Chapter 4: Gathering data
Chapter 5: Probability in our daily lives
Chapter 6: Probability distributions
Chapter 7: Sampling distributions
Chapter 8: Statistical Inference: Confidence Intervals
Chapter 9: Statistical Inference: Significance Tests, About Hypothesis
Chapter 10: Comparing two groups

**Key Dates (Tentative):**
- **First Exam:** Friday, October 19, 2018
- **Second Exam:** Friday, November 16, 2018
- **Last Day of Class:** Friday, December 7, 2018
- **Final Exam:** [https://uncw.edu/reg/exams-fall18.html](https://uncw.edu/reg/exams-fall18.html)
- STT215-002: Monday, December 10, 2018, 8:00 – 11:00 am. Osprey Hall 2005.

*Cell phones are NOT permitted in class.* Please feel free to step outside the classroom for cell phone usage. I may have to ask you to leave if this policy is violated,

**Religious Observance Policy**
In accordance with NC SL 2010-211, you are entitled to two excused absences for religious observances per academic year. You must inform me in writing the first week of class if you will be missing any classes due to religious observance and using one of the two permissible absences for the academic year. In addition, please inform the Registrar the first week of class who will then confirm your intentions to miss class with the impacted course instructors. Any absence for religious purposes will be considered unexcused unless you submit the request in writing the first week to both me and the Registrar.

**Academic Honor Code:**
In accordance with the academic honor code at the University of North Carolina at Wilmington, no form of dishonesty, such as cheating, stealing, plagiarism, etc., will be tolerated (see UNCW Code of Student Life and the Undergraduate Catalog for further details).

**Disability Services:**
The University of North Carolina at Wilmington has devoted much energy to meeting the requirements of Section 504, Federal Rehabilitation Act and to the Americans with Disability Act. If you feel you need assistance or accommodations to ensure equal opportunities in pursuing your educational goals, please contact Disability Services at extension 3746.

**THE UNIVERSITY LEARNING CENTER**
DePaolo Hall, first floor, office #1056
910.962.7857
[http://www.uncw.edu/ulc/](http://www.uncw.edu/ulc/)

The University Learning Center’s (ULC) mission is to help students become successful, independent learners. Tutoring at the ULC is NOT remediation: the ULC offers a different type of learning opportunity for those students who want to increase the quality of their education. ULC services are free to all UNCW students and include the following: Learning Services, the Math Lab, Study Skills, Supplemental Instruction, and the Writing Center.

**The Math Lab**
[http://www.uncw.edu/ulc/math/index.html](http://www.uncw.edu/ulc/math/index.html)
The Math Lab supports students by providing tutoring for all Math and Statistics courses (such as MAT 151 & STT 215), as well as any course with a math or statistics component. In addition, students who visit the Math Lab can get help with math study skills and math anxiety. Math tutors help students make the transition to college mathematics as well as supporting students in upper division math and statistics courses.

The Math Lab’s hours are shorter at the beginning of the semester, during exams, and during the summer, but typically the lab is open:

- Sunday: 2pm – 9pm
- Monday – Thursday: 9am – 9pm
- Friday: 9am – 2pm

*Please keep this syllabus for future references.*