Instructor: Dr. Sheng Zhang  
1255 Faculty Administration Building  
email: sheng@math.wayne.edu  
website: http://www.math.wayne.edu/~sheng

Time and location: 1:25 – 2:50 pm, TR, 0213 STAT

Office hours: 12:00 – 1:00 pm, TR, and by appointment.


Learning outcomes: After taking this course, you should be able to perform the following tasks:

To select a simple random sample; to make a simple randomized comparative design; to understand the difference between bias and random errors in measuring.

To draw a stemplot, a histogram, and a boxplot from a sample; to understand how to use a normal distribution; to compute the correlation coefficient between two variables; to compute the regression line of one variable against another variable and use it for prediction.

To compute the confidence interval and its margin of error in the estimation of the proportion mean of a population; to do a simple hypothesis test on the proportion or the mean of a population: to do a Chi-square test.

Course Contents, Tentative schedule:

Part I
Chapter 1-3 9/3 – 9/10
Chapter 5-6 9/10-9/15
Chapter 8 9/17-9/22
Exam 1 9/24

Part II
Chapter 10 -13 9/29 – 10/8
Chapter 14 -15 10/8 – 10//20
Exam 2 10/22

Part III
Chapter 17, 18, 20 10/27 – 11/3

Part IV
Chapter 21, 22, 24 11/5 – 12/8
Exam 3 11/19

Exams, quizzes, and grades:

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<thead>
<tr>
<th>Exam</th>
<th>time</th>
<th>% of grade</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>9/24</td>
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<tr>
<td>Exam 2</td>
<td>10/22</td>
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<tr>
<td>Exam 3</td>
<td>11/19</td>
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<tr>
<td>Final</td>
<td>12/17</td>
<td>30%</td>
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<tr>
<td>Quizzes</td>
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The final exam is a departmental comprehensive exam. There are 3 midterm exams. A midterm exam, lasting one hour, will cover materials lectured since the previous midterm exam. Quizzes, lasting 15 minutes, will be given weekly in Thursday classes except for the weeks of exams. There might be some exceptions that will be announced in class. A quiz will cover materials lectured since the previous quiz. Home works will be assigned, but no homework will be collected. Some of the assigned homeworks will be discussed in class. **Letter grades** will be on a straight scale, 90-100, A-, A; 80-89, B-, B, B+; 70-79, C-, C, C+, etc.

**Absence from exams:** Your two lowest quiz scores will be dropped. No makeup quiz will be given. Missing a mid-term exam is permitted only for the most compelling reasons. You should obtain my permission in advance to miss an exam. Otherwise you will be given a 0. If you are excused from taking an exam, a makeup will be arranged in my office hours. Except in extraordinary situations, all students missing the final exam will fail the course.

**Calculators:** Hand calculators (that can take a square root and raises a number to a power) are allowed on quizzes, tests, and the final exam. But calculators in a mobile phone or smart phone are NOT allowed. If you use a calculator with memory, the instructor reserves the right to clear the memory of the calculator during an exam.

**Religious Holidays** (from the online Academic Calendar): Because of the extraordinary variety of religious affiliations of the University student body and staff, the Academic Calendar makes no provisions for religious holidays. However, it is University policy to respect the faith and religious obligations of the individual. Students with classes or examinations that conflict with their religious observances are expected to notify their instructors well in advance so that mutually agreeable alternatives may be worked out.

**Student disabilities services:** (edited statement from the SDS web site): If you have a documented disability that requires accommodations, you will need to register with Student Disability Services for coordination of your academic accommodations. The Student Disability Services (SDS) office is located in the Adamany Undergraduate Library. The SDS telephone number is 313-577-1851 or 313-202-4216 (Videophone use only). Once your accommodation is in place, someone can meet with you privately to discuss your special needs. Student Disability Services’ mission is to assist the university in creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at Wayne State University.

Students who are registered with Student Disability Services and who are eligible for alternate testing accommodations such as extended test time and/or a distraction-reduced environment should present the required test permit to the professor at least one week in advance of the exam. Federal law requires that a student registered with SDS is entitled to the reasonable accommodations specified in the students accommodation letter, which might include allowing the student to take the final exam on a day different than the rest of the class.

**Academic Dishonesty – Plagiarism and Cheating** (edited statement from the DOSOs web site): Academic misbehavior means any activity that tends to compromise the academic integrity of the institution or subvert the education process. All forms of academic misbehavior are prohibited at Wayne State University, as outlined in the Student Code of Conduct (http://www.doso.wayne.edu/student-conduct-services.html). Students who commit or assist in committing dishonest acts are subject to downgrading (to a failing grade for
the test, paper, or other course-related activity in question, or for the entire course) and/or additional sanctions as described in the Student Code of Conduct.

Cheating: Intentionally using or attempting to use, or intentionally providing or attempting to provide, unauthorized materials, information or assistance in any academic exercise. Examples include: (a) copying from another student’s test paper; (b) allowing another student to copy from a test paper; (c) using unauthorized material such as a “cheat sheet” during an exam.

Fabrication: Intentional and unauthorized falsification of any information or citation. Examples include: (a) citation of information not taken from the source indicated; (b) listing sources in a bibliography not used in a research paper.

Plagiarism: To take and use another’s words or ideas as one’s own. Examples include: (a) failure to use appropriate referencing when using the words or ideas of others; (b) altering the language, paraphrasing, omitting, rearranging, or forming new combinations of words in an attempt to make the thoughts of another appear as one’s own.

Other forms of academic misbehavior include, but are not limited to: (a) unauthorized use of resources, or any attempt to limit another student’s access to educational resources, or any attempt to alter equipment so as to lead to an incorrect answer for subsequent users; (b) enlisting the assistance of a substitute in the taking of examinations; (c) violating course rules as defined in the course syllabus or other written information provided to the student; (d) selling, buying or stealing all or part of an un-administered test or answers to the test; (e) changing or altering a grade on a test or other academic grade records.

Course Drops and Withdrawal: In the first two weeks of the (full) term, students can drop this class and receive 100 percent of tuition and course fee cancellation. After the end of the second week there is no tuition or fee cancellation. Students may drop for an additional two weeks without instructor permission but will not receive a refund. Drops during the first four weeks of the term will be removed from the students record. Students who wish to withdraw from the class after the first four weeks can initiate a withdrawal request on Pipeline. If the instructor approves the request, you will receive a transcript notation of WP (passing), WF (failing), or WN (no graded work) at the time of withdrawal. No withdrawals can be initiated after the end of the tenth week. Students enrolled in the tenth week and beyond will receive a grade. Because withdrawing from courses may have negative academic and financial consequences, students considering course withdrawal should make sure they fully understand all the consequences before taking this step. More information on this can be found at: http://reg.wayne.edu/pdf-policies/students.pdf

Student services: The Academic Success Center (1600 Undergraduate Library) assists students with content in select courses and in strengthening study skills. Visit www.success.wayne.edu for schedules and information on study skills workshops, tutoring and supplemental instruction (primarily in 1000 and 2000 level courses). The Writing Center is located on the 2nd floor of the Undergraduate Library and provides individual tutoring consultations free of charge. Visit to obtain information on tutors, appointments, and the type of help they can provide.

The Mathematics Resource Center is located in room 1198 FAB and provides individual tutoring in mathematics free of charge. No appointment is necessary.

MRC Fall 2015 Hours:
- Mondays - Thursdays: 9:30 am - 5:30 pm (Room 1198 FAB)
- Fridays: 9:30 am - 1:00 (Room 1198 FAB)
- Saturdays: 9:30 am - 1:00 (Room 111 State Hall)
- Website: http://clas.wayne.edu/Math/Mathematics-Resource-Center