UNIVERSITY OF NEVADA, LAS VEGAS
Department of Mathematical Sciences

STAT 152: Introduction to Statistics
SYLLABUS (Fall 2019)

Instructor: Hokwon A. Cho, Ph.D. Associate Professor of Statistics
Office Location: CDC 1010 ☎ 895-0393, E-mail: cho@unlv.nevada.edu
Class Time & room: M & W 10:00AM–11:15AM, Class Room: CBC-C321
Office Hours: M, W & Th 1:30PM-3:00PM or by appointment.

Course Web page: https://cho.faculty.unlv.edu/sta152.htm
Prerequisite: MAT 126 (Precalculus I) or equivalent (C or better).

Scope of the Course: This is an introductory course in statistics and probability. We study the statistical methods for data analysis. The emphasis will be on statistical thinking, statistical methods and real data analysis. We will cover first four parts I-IV (Chapters 1-24) plus Chapter 25 in the text at minimum, including Review Chapters. Broadly speaking, the topics to be covered are:

1) Data & Descriptive statistics – Data & variables, graphical representation, describing distribution, normal distribution, exploring relationships.
2) Sampling distributions & Probability – Sample and sampling design, experiment, general rules of probability, binomial distributions, sampling distribution.
3) Basic statistical inference – Confidence Intervals, tests of significance, estimating population means and proportions, comparing two means or proportions.
4) Categorical data – Categorical variable, Chi-square test.

The statistical packages MINITAB (or other software) and R programming language will be used if necessary.

Homework & Quizzes: Homework will be assigned every week and may not be collected. Possibly 15-min quizzes or worksheets will replace with the homework collection. Homework solutions will be posted on the course web page. No late homework will be accepted and no make-up quiz will be given.

Test & Final Exam: There will be two tests and a final examination. Two tests are most likely on 6th week and 11th week during the semester. No make-up test will be given. Final Exam: Monday Dec. 9, 10:10AM-12:10PM in class.

Course Grades: Grading is based upon the followings:
(1) Homework/quizzes 20% (2) two tests 25% each (3) Final exam 30%.
Scale: A/A-: 100-90  B: 89-80  C: 79-70  D: 69-60  F: < 60

Notes: (1) No make-up exam/quiz will not be given except for valid documented reasons or prior permission from the instructor.
(2) Above is subject to change without notice.

**Class Policies**

1. **ATTENDANCE** – Attendance (in lower level) is mandatory; students are expected to attend all classes. Be in class and on time. For more than 3 times absence, final grade will be 40% reduced due to lack of attendance.

2. **ACADEMIC INTEGRITY** – Academic dishonesty will not be tolerated; the College of Sciences emphasizes zero tolerance for academic dishonesty. All acts of academic dishonesty may result in: automatic zero on the assignment, F in the course, disciplinary review, revoking of degree, probation, expulsion, etc.

   While the UNLV Department of Mathematical Sciences encourages students to collaborate with peers, there is a distinction between verbal collaboration and copying. Specifically – it is not acceptable to “divide” work, and it is not acceptable to use another persons’ hard work (current or former student, teaching assistant, or tutor) as your own. Further, if you feel you are being misguided, it is your responsibility to report this to your instructor before testing, so they can correct the situation and give you proper clarification.

3. **MAKE-UP POLICY:**
   Late work is not generally accepted except it is documented (e.g., sickness, etc.); if it is, expect a points penalty. Make-up exams may or may not be given at the discretion of the instructor.

4. **TUTORING:**
   Free tutoring through the Department of Mathematical Sciences is available for this course at CDC 701. Call 895-0366 or visit [https://www.unlv.edu/math/tutoring](https://www.unlv.edu/math/tutoring) for more information, including hours (M, Th, F: 10A-5P, Tu, W: 10A-7P). Additional free and pay tutoring is available in the Academic Success Center, [https://www.unlv.edu/asc](https://www.unlv.edu/asc). Students are highly encouraged to exploit the opportunities afforded by these tutoring programs.

**Guidelines for Courtesy and Respect:**

I would like to welcome all students into an environment that creates a sense of community pride, courtesy, and respect; we are here to work cooperatively and to learn together. In order to create a smooth and harmonious learning community, please make every attempt to come to all the class sessions, to come to class on time, and to stay until the end of the meeting. There may be a time when you are unavoidably late for class. In that case, please come into the room quietly and choose a seat closest to the entrance. Once the class session has begun, please do not leave the room and then re-enter unless it is an emergency. It is important that we are all able to stay focused on the class lecture/discussion. For this reason, only one person at a time in the class should be speaking. Side conversations are distracting for surrounding students and for the professor. All electronic devices should be turned off before entering the room. You must have instructor permission for use of a laptop, and it is only to be used for instructional purposes. As you can see, simple norms of courtesy should be sufficient to have our class run in the best interests of all. Any student considered to be a distraction to the learning environment may be asked to leave the classroom at any time. Any student who is continually a distraction to the learning environment may be administratively dropped. Thank you in advance for your cooperation.

**University Policies**

For the university class policies on the Academic Misconduct, Copyright, Disability Resources Center (DRC), Tutoring, Writing Center, and Religious Holidays, visit the course web page or refer the following links.

- Academic Misconduct: [https://www.unlv.edu/studentconduct/misconduct](https://www.unlv.edu/studentconduct/misconduct)
- Copyright: [https://www.unlv.edu/provost/copyright](https://www.unlv.edu/provost/copyright)
- Disability Resources Center (SSC Rm137): [https://www.unlv.edu/drc](https://www.unlv.edu/drc)
- Tutoring, Academic Success Center (ASC): [https://www.unlv.edu/asc/tutoring](https://www.unlv.edu/asc/tutoring)
- University writing Center (CDC-3 Rm 301): [https://www.unlv.edu/units/writing-center](https://www.unlv.edu/units/writing-center)