De Anza College
Math 10 - Introduction to Statistics

Instructor: Danny Tran  (Email: Trandanny@deanza.edu)
Office: E32A

Prerequisite: Passing grade (C or better) in Intermediate Algebra or placement exam; Advisory: English Writing 100 and Reading 100 (or Language Arts 100), or English as a Second Language equivalent courses

Student Learning Outcomes (what you should be able to demonstrate by the end of the course):

1. Organize, analyze, & utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, & numerical measures of characteristics of data.
2. Identify, evaluate, interpret, & describe data distributions through the study of sampling distributions & probability theory.
3. Collect data, interpret, compose, & defend conjectures, & communicate the results of random data using statistical analyses such as interval & point estimates, hypothesis tests, & regression analysis.

Book: Collaborative Statistics by Illowsky & Dean

Note: This book is available for purchase in hard copy at the De Anza College Bookstore or for FREE downloading at http://cnx.org/content/col10522/latest/

It is also available at kno.com:

1 - Log onto kno.com
2 - Click on “Sign In”
3 - Click on “Join Kno”
4 - Enter your information (Name, Email, Password,...)
5 - Search “Collaborative Statistics”
6 - “Purchase” textbook, filling out the following credit card information:

First Name on Card: Kno
Last Name on Card: Inc
Billing Address: 5155 Old Ironsides Dr.
City: Santa Clara
State: California
Billing Zip Code: 95054
Card Number: 372300036479016

Security Code: 1010

Expiration Date (MM/YY): 12/14

This card number is designed for purchase of Collaborative Statistics on Kno.com only. It will be declined for all other purchases.

Related Materials: TI-83 PLUS or TI-84 graphing calculator is required.

Attendance: Mathematics is a very demanding subject. As a result, regular attendance is extremely important. However, I realize that, on rare occasions, unforeseen circumstances may arise that will prevent you from attending class or will force you to be late to class. I will not penalize you for occasional absences or occasional tardiness. Yet, I reserve the right to drop any student who is consistently absent or makes a habit of being late to class on a regular basis. If you miss class for any reason, it is your responsibility to obtain the notes and / or handouts you may have missed.

Grading: Group Quizzes (Drop Lowest) 10%
Homework (Drop lowest) 10%
Computer Labs (4) 10%
Term Project 10%
Exams (3) 30%
Final Exam 30%

WebAssign: This is an online program we will be using to complete homework assignments.

Checking Your Grade: Using Google Docs, you will have access to your current grade. Simply email me at trandanny@deanza.edu with your gmail address & a code name you would like to be identified as on the document. (The code name can be anything that does not reveal your true identity - It can be anything from your favorite type of pasta to your little sister’s stuffed animal’s name). I will then invite you to the document where you can see your grade on each of the class’ assessments as well as what you need to earn during the remainder of the course in order to earn an A, B, or C in the course.

Your base grade can be calculated by computing your overall percentage score & comparing it to the following scale:

<table>
<thead>
<tr>
<th>Course Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>92% ≤ x</td>
</tr>
<tr>
<td>A-</td>
<td>90% ≤ x &lt; 92%</td>
</tr>
<tr>
<td>B+</td>
<td>88% ≤ x &lt; 90%</td>
</tr>
<tr>
<td>B</td>
<td>82% ≤ x &lt; 88%</td>
</tr>
</tbody>
</table>
B- \quad 80% \leq x < 82%

C+ \quad 78% \leq x < 80%

C \quad 70% \leq x < 78%

D \quad 60% \leq x < 69%

F \quad x < 60%

Note: You are guaranteed a grade no worse than the above scale. This way you have a score to strive for depending on your desired grade in the class. However, minimum percentages might be less than those given above when your final grade is determined.

Class Conduct: Cheating is absolutely forbidden in my class. Looking at someone else's exam, helping another student during an exam, talking to anyone else except me during an exam, copying another student's work, or using an external source of information for which you were not explicitly given permission will result in disciplinary action. This disciplinary action might include anything from receiving 0 points on the exam to an F in the class. Cheating incidents will be reported to the Dean of Student Affairs.

Also, I expect you to be respectful of your fellow students and of me. To that end, come to class on time, do not leave early unless you have that approved by me in advance, do not talk during class, do not be disruptive, and pay attention during class.

Cell Phones: I realize that many of you feel the need to stay connected at all times. If you feel that you cannot turn off your cell phone during class, place your cell phone on vibrate or silent mode. If you receive a call, quietly step outside the classroom before answering the phone.

Get to know your classmates:

Obtain the following Information for at least two of your classmates.

Classmate 1:
Name: ________________________________________
Email: ________________________________________
Telephone No.: ________________________________

Classmate 2:
Name: ________________________________________
Email: ________________________________________
Telephone No.: ________________________________

Success: To be successful in a math course you should be diligent and mindful of the resources available for you. Below are some recommendations.

1. Attend ALL lectures on TIME.
2. Be an active participant of lecture.

3. Do not hesitate to visit office hours if there is any problem.

4. Review, in detail, past mistakes on homework, exams, and quizzes.

5. Read the (online) textbook ahead and prepare for lecture.

6. Complete all assigned homework.

7. Study hard!

8. Get to know your classmates, and form study groups.

9. Go to tutorial services. (Math and Sciences Tutorial Center S43)

10. Have fun learning and have a positive attitude

Topics to Skip:

Ch. 3: Venn Diagrams

Ch. 4: Geometric, Hypergeometric Distributions

Ch. 7: Central Limit Theorem for Sums

Ch. 11: Test of One Variance

Math 10 Course Schedule Fall 2011 (Tentative Schedule)

<table>
<thead>
<tr>
<th>Date</th>
<th>Ch</th>
<th>Date</th>
<th>Ch</th>
<th>Date</th>
<th>Ch</th>
<th>Date</th>
<th>Ch</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.26</td>
<td>Ch 1</td>
<td>9.27</td>
<td>Ch 1</td>
<td>9.28</td>
<td>Ch 1</td>
<td>9.29</td>
<td>Ch 1</td>
</tr>
<tr>
<td>10.3</td>
<td>Ch 2</td>
<td>10.4</td>
<td>Ch 2</td>
<td>10.5</td>
<td>Ch 2</td>
<td>10.6</td>
<td>Ch 2</td>
</tr>
<tr>
<td>10.10</td>
<td>Ch 3</td>
<td>10.11</td>
<td>Ch 3</td>
<td>10.12</td>
<td>Ch 3</td>
<td>10.13</td>
<td>Ch 3</td>
</tr>
<tr>
<td>10.17</td>
<td>Ch 4</td>
<td>10.18</td>
<td>Ch 4</td>
<td>10.19</td>
<td>Ch 4</td>
<td>10.20</td>
<td>Ch 4</td>
</tr>
<tr>
<td>10.24</td>
<td>Ch 5</td>
<td>10.25</td>
<td>Ch 6</td>
<td>10.26</td>
<td>Ch 5</td>
<td>10.27</td>
<td>Ch 5</td>
</tr>
<tr>
<td>11.31</td>
<td>Ch 6</td>
<td>11.31</td>
<td>Ch 6</td>
<td>11.32</td>
<td>Ch 6</td>
<td>11.33</td>
<td>Ch 6</td>
</tr>
<tr>
<td>11.34</td>
<td>Ch 7</td>
<td>11.35</td>
<td>Ch 7</td>
<td>11.36</td>
<td>Ch 7</td>
<td>11.37</td>
<td>Ch 7</td>
</tr>
<tr>
<td>11.41</td>
<td>Ch 8</td>
<td>11.42</td>
<td>Ch 8</td>
<td>11.43</td>
<td>Ch 8</td>
<td>11.44</td>
<td>Ch 8</td>
</tr>
<tr>
<td>11.45</td>
<td>Ch 8</td>
<td>11.46</td>
<td>Ch 9</td>
<td>11.47</td>
<td>Ch 9</td>
<td>11.48</td>
<td>Ch 9</td>
</tr>
<tr>
<td>11.51</td>
<td>Ch 9</td>
<td>11.52</td>
<td>Ch 9</td>
<td>11.53</td>
<td>Ch 9</td>
<td>11.54</td>
<td>Ch 9</td>
</tr>
<tr>
<td>11.55</td>
<td>Ch 9</td>
<td>11.56</td>
<td>Ch 9</td>
<td>11.57</td>
<td>Ch 9</td>
<td>11.58</td>
<td>Ch 9</td>
</tr>
</tbody>
</table>

Quiz #1: MT #1
Quiz #2: MT #1
Quiz #3: MT #1
Quiz #4: MT #1
Quiz #5: MT #1

11.11 Veteran’s Day - No School
11.24 Thanksgiving - No School
11.25 Thanksgiving - No School
12.1 Review for MT #3
12.2 MT #3
Notes:

- Dates for the Final Examination are set by college policy and cannot be changed. If you cannot take the final on the date given, do not enroll in the course. [Make sure you book flights home for break after finals week.]
- This is a rough day-by-day schedule, so may be ahead or behind by a class or two at given points in the quarter.

“Convincing” – xkcd.com