

**MATH 10. 62 Syllabus**  
**De Anza College**  
**Fall 2016**

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**CRN:** 01519

**Course:** Elementary Statistics and Probability MATH 10

**Meets:** MW 6:30 to 8:45 PM in Room: G-10

**Course Description:** Introduction to data analysis making use of graphical and numerical techniques to study patterns and departures from patterns. The student studies randomness with an emphasis on understanding variation, collects information in the face of uncertainty, checks distributional assumptions, tests hypotheses, uses probability as a tool for anticipating what the distribution of data may look like under a set of assumptions, and uses appropriate statistical models to draw conclusions from data. The course introduces the student to applications in engineering, business, economics, medicine, education, social sciences, psychology, the sciences, and those pertaining to issues of contemporary interest. The use of technology (computers or graphing calculators) will be required in certain applications. Where appropriate, the contributions to the development of statistics by men and women from diverse cultures will be introduced.

**Student Learning Outcomes:**

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

**Prerequisites:**

- Math 114 Intermediate Algebra with grade of C or better; or equivalent placement
- EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273. Although this is a Math course, English reading comprehension and writing are very important in Math 10.

**Text:** Introductory Statistics from OpenStax, by Illowsky & Dean.

- Get it free <http://bit.ly/OpenStaxStats>
- Print book can be purchased at the bookstore – cost under \$35 new; used or rental copies may be available

**Calculator:** TI-83 PLUS, TI-84, or TI-84 PLUS graphing calculator is REQUIRED in class everyday.

\*\*Smart phone calculators will not be allowed during class, quizzes, and tests\*\*

**Attendance:** Students MUST be present in the first class or they will be dropped by the instructor. If a student misses a class during the FIRST TWO WEEKS and does not contact the instructor by the next day, s/he may be dropped from the class.

A student who discontinues coming to class and does not drop the course will get an F. It is the student's responsibility to drop the course. You are expected to attend all classes, arrive on time and stay for the entire class. Regular attendance is essential for success in math class. Late arrival (more than 10 minutes after the class starts) or early departures are disruptive. You will lose 1 point from your class participation grade for each absence, late arrival, or early departure (or any combination). If you wish not to attend the class anymore then it is your responsibility to drop the class. In the event of your absence, you are encouraged to contact me via email. There will be no makeup tests or quizzes.

**Method of Instruction:** This class will consist of lectures and in-class discussion. There will also be boardwork and in-class group assignments which you are expected to participate in.

**Homework:** All homework will be done online using WebAssign. You will need to register at [www.webassign.net](http://www.webassign.net) to use this internet-based software. Each homework is worth 1% of your final grade. You will need the class key given below in order to self-register.

**Class key: deanza 8726 6025**

**Quizzes:** We will have several in-class quizzes (see the calendar). IMPORTANT: There will be NO MAKEUPS for any of the quizzes. However, your lowest quiz score will be dropped.

**Exams:** We will have 3 midterm exams (50 minutes each). The midterm dates are on our calendar. You will also have a cumulative final exam, which will take place on **the last day of class** in our classroom (see course calendar). There will be NO MAKEUPS for any of the exams. If you miss a midterm exam, your final exam score will replace your score for that midterm. If you miss two midterms, you will receive an 'F' in the course. Please note that you **must** take the final exam in order to pass the class. If you cannot make it to the final exam, drop this class NOW, as final exam cannot be rescheduled.

**Labs:** Lab assignments are done in groups and make use of the calculator.

- You will not be able to complete most labs in class.
- Lab members will be peer reviewed for participation and contribution using Google Forms. Each team member will review other team members, and each member's average score will count as 1/5 of that student's final lab grade.
- You will have points deducted if you are absent the day that the lab data is collected and worked on in class.
- No lab grades will be dropped.

**Group Projects:** These projects will be done in groups. More details will be discussed in class.

**Evaluation Process:** Final grade in this course will be determined as follows:

Homework	10% (1% each)
Quizzes	15% (3% each)
Exams	30% (10% each)
Labs	10% (2% each)
Group Projects	10%
Final Exam	25%

**Grading scale:**

[92%, 100%]	A
[90%, 92%)	A-
[88%, 90%)	B+
[82%, 88%)	B
[80%, 82%)	B-
[78%, 80%)	C+
[70%, 78%)	C
[60%, 70%)	D
Below 60%	F

The student is responsible for saving all graded, returned work. There will be no discussion of grade discrepancies unless the student has a graded copy of the work in question.

**Withdrawal Policy:** You can find your withdrawal deadline on MyPortal. If students withdraw before this date, they will receive a "W", after this date, an "F".

**Help:**

- Expect to spend 2 hours outside the class for each 1 hour in the class studying the material and doing the homework. This is a fast paced course, don't fall behind!
- I strongly encourage you to attend the **group tutoring session in S43**. I am also available to help you throughout the term.
- Use the Drop-In tutoring services at S43 if you cannot make it to the group tutoring or for additional help.
- Feel free to check in with me during the break or after class. E-mail is the best way to get in touch with me outside of class. Feel free to send me any questions and I'll make my best effort to answer them quickly. If you choose to do this, please remember to state your question clearly, and if it's a HW question, tell me briefly what you have tried and what your specific question is. Also, sign your name at the bottom of your email.  
**Expect my reply within a day. One weekend counts as one day.**
- Don't forget that your classmates are a great resource. Ask for help and help others!

**Academic Honesty and Discipline Policy:** Students are expected to abide by the college code of conduct. All work turned in is to be the student's own. Students giving or receiving help on a test or quiz will forfeit all points for that assignment or may be withdrawn from the course with a grade of "F". For take home assignments, any student turning in a work, which is strikingly similar to that of another student, will be required to schedule a conference to discuss the matter

with the instructor, and any evidence of cheating will result in no points for that assignment and will be reported for further action. (See <https://www.deanza.edu/studenthandbook/academic-integrity.html>)

**Expected Student Conduct During Class:** Students, at all times, should keep their cell phones, beepers and other noise making devices in either switched off mode or in silent mode and keep them inside. **Students will receive a 5 point deduction from your final grade for each unauthorized use of their cellphones during class. There can be more than one set of deductions per class period. The bottom line: Put the phone away.**

Disruptive behavior may include (but is not limited to) the following: talking when it does not relate to the discussion topic, sleeping (yes, it is disruptive!), reading other material (e.g. newspapers, magazines, textbooks from other classes), eating or drinking, monopolizing discussion time, refusing to participate in classroom activities, leaving cellphones and pagers on, and engaging in any other activity not related to the classroom activity. Students who engage in disruptive classroom behavior will be approached by the instructor and may receive a 5 point deduction. If the disruptive behavior continues, students may be asked to leave the classroom and/or eventually be dropped from the course.

De Anza College will enforce procedures set forth in the Student Standard of Conduct (see <https://www.deanza.edu/studenthandbook/academic-integrity.html>) and the appropriate remedial and/or disciplinary steps will be taken when violations occur. During the quarter, if you have any questions about the course policies, you will be first referred to this syllabus. Please make sure you keep a copy.

**Students with Disabilities:** Students with disabilities who qualify for academic accommodations must provide a notification from the Disability Support Services (DSS) and discuss specific needs with the instructor, preferably during the first two weeks of class. Disability Support Services determines accommodations based on appropriate documentation of disabilities. DSS is located in Student Community Services building, room 141 and their phone number is (408) 864-8753

**Disclaimer Statement:** The information presented in this syllabus is tentative, may be modified by the instructor. Students will be notified of any modifications during normal scheduled classes, and the students are responsible for the changes.

**Important Dates:**

**Monday, September 26:** First day of Fall Quarter 2016

**Sunday, October 9:** Last day to drop for a full refund or credit (for 12-weeks, quarter-length classes). Last day to drop for a refund/credit for all other classes is listed inside MyPortal, on the Students Tab under 'View Your Class Schedule.' *Drop date is enforced.*

**Friday, October 14:** Last day to request pass/no pass grade. *Request date is enforced.*

**Friday, November 11:** Veterans Day (classes will be held on Nov. 12)

**Friday, November 18:** Last day to drop with a "W." *Withdraw date is enforced.*

**Thursday - Sunday, November 24 - 27:** Thanksgiving Holiday Recess (college closed)

**Saturday, December 10 - Friday, December 16:** Final exams

**Friday, December 16:** Last day to file for a fall degree or certificate.

**Friday, December 16:** Last day of Fall 2016 Quarter

**Monday, January 9:** First day of Winter 2017 Quarter

## Course Calendar

	Monday	Tuesday (No Class)	Wednesday
September Week #1	<b>26</b> Syllabus/Intro/Ch 1	<b>27</b> HW 1 (assigned)	<b>28</b> Chs 1 and 2 (Quiz 1)
October Week #2	<b>3</b> Chs 2 and 3 (Lab 1)	<b>4</b> HW 1 (due)	<b>5</b> Ch 3
October Week #3	<b>10</b> Ch 3 (Quiz 2)	<b>11</b> HW 2 (due)	<b>12</b> Review/Exam 1 (Chs 1-3)
October Week #4	<b>17</b> Ch 4 (Lab 2)	<b>18</b> HW 3 (due)	<b>19</b> Ch 5
October Week #5	<b>24</b> Ch 6	<b>25</b> HW 4 (due)	<b>26</b> Ch 7 (Quiz 3)
October/November Week #6	<b>31</b> Ch 8 (Lab 3)	<b>1</b> HW 5 (due)	<b>2</b> Review/Exam 2 (Chs 4-8)
November Week #7	<b>7</b> Ch 9	<b>8</b> HW 6 (due)	<b>9</b> Ch 9 (Quiz 4)
November Week #8	<b>14</b> Ch 10 (Lab 4)	<b>15</b> HW 7 (due)	<b>16</b> Ch 11
November Week #9	<b>21</b> Chs 11 and 12 (Quiz 5)	<b>22</b> HW 8 (due)	<b>23</b> Ch 12 (Lab 5)
November Week #10	<b>28</b> Chs 12 and 13	<b>29</b> HW 9 (due)	<b>30</b> Ch 13 (Quiz 6)
December Week #11	<b>5</b> Review/Exam 3 (Chs 9-13)	<b>6</b> HW 10 (due)	<b>7</b> Review for Final
December Week #12	<b>12</b>	<b>13</b>	<b>14</b> Final Exam (6:15 to 8:15 PM)