MATH 217 – Integrated Statistics 1 (Statway) - De Anza College - Winter 2018

Instructor: Mo Geraghty **Contact:** geraghtymo@fhda.edu 408-864-5383 **Website:** nebula2.deanza.edu/~mo **Mirror Website:** professormo.com	**Office:** S49a **Office Hours:** M 6:15-7:00PM Tu 11:00-12:30 (in LCW110) W 12:30-1:20 Th 12:30-1:20

Course Materials:
- *Statway Modules 1 - 11* (Available for purchase at the bookstore) This includes all material for both Math 217 and Math 17 which will be offered in the spring. It also includes an access code for online materials.
- *Statway Supplementary Algebra Worksheets* (Available for purchase at the bookstore)
- TI83/TI84 graphing calculator
- Carnegie Pathways account:
  - o Log in to pathways.carnegiehub.org and create a new account
  - o Request to be enrolled in the course with code **'RETF-NGXB'**
  - o After you're approved to enroll, you will have a 4-week grace period to pay. You will use the access code that came with the printed materials.

Course Description:
This course is the first of a two-course sequence in the study of statistical methods integrated with algebraic tools to prepare students to analyze processes encountered in society and the workplace. This course covers an introduction to algebra and descriptive statistics in an integrated approach. Topics include data collection, organizing and interpreting data graphically, qualitative and quantitative data sets, measures of central tendency and measures of dispersion, bivariate data and scatter plots, linear functions and their graphs, nonlinear functions and their graphs, and applying technology to calculate various types of regressions. Students are expected to implement technology to perform calculations to organize data in order to make statistical conclusions. **This sequence of courses is intended for students intending who are NOT planning on majoring in a business, science, technology, engineering, or mathematics related discipline.**

Prerequisite:
Satisfactory completion of Math 210 or a satisfactory score on the math placement test.

Attendance & Classroom Policies:
Attendance is of utmost importance for success in this class. You are expected to attend every class meeting. Students are allowed a maximum of 5 absences. Arriving late or leaving early is calculated as ½ an absence.

Grading:
- **Quizzes (5 best at 10 pts each)**
  There are 6 scheduled quizzes at the end of most modules. The lowest quiz score will be dropped. There are no make-up quizzes.
- **In-class Activities (35 pts)**
  Each class will have activities and exercises that are worked on in groups. Credit will be given for active participation in these activities. You must be in attendance to receive this credit.
- **Take-it-Home (80 pts)**
  These exercises may or may not get completed in class and assigned for homework. These are due at the beginning of the next class. Take-it-home exercises will not be accepted late unless they are accompanied by a late coupon. You will be given 4 late coupons at the beginning of the quarter to use when needed.
- **Checkpoints on Pathways.carnegiehub.org Canvas (35 pts)**
  Checkpoints are computer exercises that are delivered via pathways.carnegiehub.org. Each day you should consider spending at least two hours on it. This will not only reinforce what happened in class but also prepare you for future class activities. Your completion of the exercises there will prepare you to do well on the Checkpoints. The due dates for the checkpoints are listed within that portal.
- **Exams (3 at 50 pts each)**
  3 in-class 1-hour exams will be given. **No make-ups will be allowed.** Your lowest exam score will be replaced by proportional final exam score if the final exam score is higher.
- **Labs (50 pts)**
  Lab classes will be held in the math computer lab: S42. You will use Minitab and other statistical software in analyzing data and learning statistical models. Computer labs can be done in groups and be turned in by the due date. **There is no credit for late labs**.
- **Final Exam (100 pts)**
  The final exams will be held in 2 parts: on Monday, March 19 and Tuesday, March 27. The first exam (20 points) is a standardized multiple-choice exam required by the Carnegie Foundation who created Statway. The second exam (80 points) will cover everything that we've studied during the quarter.

Grading Weights & Policy:
Grading will be based on the following criteria. **Grades are not negotiable.**

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485 - 500 = A+	465 - 484 = A	450 - 464 = A-
435 - 449 = B+	415 - 434 = B	400 - 414 = B-
375 - 399 = C+	350 - 374 = C	325 - 349 = D+
300 - 324 = D	0 - 299 = F	

Grading Criteria	
Quizzes:	50 pts
In-class Material:	35 pts
Take it Homes:	80 pts
Checkpoints:	35 pts
Exams:	150 pts
Labs:	50 pts
Final Exam:	100 pts
	500 pts

Drop/Withdrawal Policy:
It is your responsibility to officially drop or withdraw the course if you choose not to complete it.
Last day to Drop the course: **January 21**
Last day to Withdraw from the course: **March 2**

Classroom Conduct:
Human beings are not great at multitasking. Math requires singular focus. We will expect your full attention during lecture and class activities. Disruptive classroom behavior may include (but is not limited to) the following: talking when it does not relate to the discussion topic, sleeping, reading other material (e.g. newspapers, magazines, textbooks from other classes), eating or drinking, monopolizing discussion time, refusing to participate in classroom activities, texting, and engaging in any other activity not related to the classroom activity. Students who engage in disruptive classroom behavior will be warned by the instructor. If the disruptive behavior continues, students may be asked to leave the class, and eventually dropped from the course. You are expected to silence and put away your electronic devices. If your device causes disruption in any way, we reserve the right to confiscate it!

Academic Integrity:
Students are expected to be honest and ethical at all times in the pursuit of academic goals. Please see
http://www.deanza.edu/studenthandbook/academic-integrity.html. Any instances of cheating or plagiarism will result in disciplinary action, which may include recommendation for dismissal. You are encouraged to work together on homework but simply copying down answers from another student's homework is not only wrong, but will be of no help to you on the quizzes and exams! Cheating on a quiz or an exam will result in getting a 0 on it, an F in the course or dismissal from the class. Also, each incident of cheating will be reported to the Dean of the Physical Science, Mathematics and Engineering Division for further action.

Disability-Related Accommodation:
If you feel that you may need an accommodation based on the impact of a disability, you should contact me privately to discuss your specific needs. Also, please contact Disability Support Services (864-8753) or Educational Diagnostic Center (864-8839) for information or questions about eligibility, services and accommodations for physical (DSS), psychological (DSS) or learning (EDC) disabilities.

Respect, Diversity and Statement by the Foothill - De Anza Community College District Board:

De Anza College embraces a notion of intellectual community enriched and enhanced by diversity along a number of dimensions, including race, ethnicity and national origins, gender and gender identity, sexuality, class and religion. Because the class represents a diversity of individual beliefs, backgrounds, and experiences, every member of this class, including the professor, **must show respect** for every other member of this class. The Foothill - De Anza district will not detain, question, or arrest any individual solely on the basis of undocumented immigration status, suspected or confirmed, except as required by judicial warrant, subpoena, or court order. The district shall not cooperate with any federal or state effort to create a registry of individuals based on any legally protected characteristics, such as religion, national origin, race, ethnicity, sexual orientation, or gender identity. No confidential student records will be released without a judicial warrant, subpoena or court order, unless authorized by the student or required by law.

Extra Help:
Do not wait to get extra help. Contact either instructor via email or in person. The Math Science Tutorial Center is located in S43 and you may be able to get help there. Don't forget that your classmates are also a great resource!

Student Learning Outcomes (SLOs):
1. 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.
2. Analyze and describe data distributions through the study of probability theory.
3. Evaluate real-world situations and apply linear, quadratic and exponential function models appropriately.