Statistical Methods STA 2023

Instructor: Ms. Katrina Teaño, M.S.

Fall 2013

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Section Information: CRN 12614, MWF 9:00-9:50, 4-206.

Required Materials:

1. Text: **Stats - Modeling the World** Third Edition, **David Bock**, *Cornell University*, **Paul Velleman**, *Cornell University*, and **Richard de Veaux**, *Williams College,* Addison-Wesley 2010, ISBN: 978-0-321-57044-4.
   You may purchase an eBook version of this text here: **http://www.mypearsonstore.com/bookstore/stats-modeling-the-world-coursesmart-etextbook-0321614399** Note that while you may purchase this textbook used or rent it, it is advised NOT to purchase older editions of this textbook, as I will be assigning homework based on the numbering in the current version.

2. Writing Materials: binder, college ruled notebook paper, graph paper, pencil, eraser

3. Graphing Calculator: : I will be using a TI 84 for classroom demonstration. Only the TI 83 or 84 can be used on exams; calculator memory will be wiped before each exam. Computers and cell phones DO NOT substitute for graphing calculators. Students may borrow calculators from the Math Success Center (4-101) or the Mathematics department (7-142) if the need arises, but are expected to own their own for assignments and tests.

4. E-mail: All notifications are done through Atlas. Be sure to check your email at least twice a week. E-mails MUST be sent through Atlas as all other e-mail services are marked as spam. All e-mails MUST be spell checked and grammatically correct. I will not "guess" what you are trying to say.

Prerequisite: MAC 1102, 1104, or 1105 with a grade of "C". Entry placement tests may substitute for course prerequesites.

Course Description: This course counts for 3 credit hours. This course is an introductory statistics course that covers collection, description, and interpretation of data. Topics include sampling, summarizing data graphically and numerically, confidence interval estimation, hypothesis testing, correlation and regression. This is a Gordon Rule Course. A minimum grade of C is required if STA 2023 is used to satisfy the Gordon Rule.

Valencia Core Competencies: Valencia has four core competencies that are integrated throughout the curriculum. These competencies are essential for students to achieve lifelong success.

- Think: The ability to think critically, in relation to problem solving, is high among employer expectations.

- Communicate: The ability to communicate in written and verbal form is essential in the workforce.

- Act: The ability to apply disciplinary knowledge, skills and values to educational and career goals.

- Value: The ability to employ values and standards of judgment from different disciplines and see how they positively affect each other.

Classroom Etiquette: Attendance at all classes is **required** except in the case of an emergency. Students are responsible for all class materials and any announcements made in class even when absent. If you miss 2 classes, I will send you a warning. If after the warning you miss another class, I **WILL** withdraw you from the course. There are no excused absences. Being late to class or leaving early is a disruption to the class and is discourteous to the professor and the other students. All students are expected to be on time to class and to stay for the entire period. If you need to leave early, notify me before the start of class.

Cell Phones: Cell phones are to be off or on silent mode while in class and during exam time. **DO NOT** use or handle your cell phone in class. **ANY** cell phone use during an exam **WILL** be considered cheating and **WILL** result in a 0 on that exam. Again, cell phone apps **DO NOT** replace usage of a graphing calculator.

Academic Dishonesty: All students are expected to be in complete compliance with the policies on academic dishonesty (see the Valencia College website for details on this policy). Cheating of any type will not be tolerated in this course. Students who plagiarize or cheat in any way will risk dismissal from class and/or expulsion from the college. If you are caught cheating by anyone in the testing center or any instructor, a ZERO will be counted for that exam score and averaged into your grade. You may also be withdrawn from the class or receive an F.

Students with Disabilities: If a student qualifies for academic accommodations, it is the student's responsibility to present me with documentation from the Office for Students with Disabilities (5-216) and discuss specific needs with me, preferably within the first week of class.

Evaluation:

- Exams 40%

- Homework 30%

- Attendance and Participation 5%

- Final Exam 25%

Exams – You will have 4 exams throughout the semester. There are no makeup exams. Missed exams will receive a grade of 0. An exam can be taken prior to the scheduled day in the testing center if a student knows they will be absent. You MUST contact me in advance to schedule this.

Homework – Homework will be assigned at the end of every class, due at the beginning of the next class. There will be no late acceptance for homework. Students are encouraged to work in groups for homework, but not required, and each student should write up work individually. Always show your work; answers not supported with relevant steps will not be honored. Your lowest homework score will be dropped.

Attendance and Participation – Active participation both inside and outside class meeting times is critical to understanding, and will be considered for this portion of the grade. Usage of the Math Support Center (4-101) will be considered as well. Sign in with your name and the name of this course to be sure those hours count!

Final Exam –The final exam is comprehensive. There will be no make up finals! Your final exam, if it is higher, will replace your lowest exam grade. Failure to take the final exam automatically results in an F for the course. Your final grade will be calculated as follows:

- 90%-100% "A"

- 80%-89% "B"

- 70%-79% "C"

- 60%-69% "D"

- under 60% "F"

Withdrawal: If you decide to withdraw, you must follow the proper procedure (see Atlas for details). Students should familiarize themselves with the Valencia College withdrawal policy. The withdrawal deadline of the Fall 2013 semester is November 1, 2013. Please note: Always seek advice and guidance from myself and from your counselor before withdrawing from the class. Seeing your counselor before withdrawing is very important because it may impact your Bright Futures or financial aid.

Tutoring and Support Materials: There is free tutoring available in the Math Support Center (4-101). I am happy to answer questions on specific course topics by email, though you should expect up to a 24 hour delay between your sending an email and my response. A great website for extra help on specific topics is http://valenciacollege.edu/math/livescribe.cfm

Conduct: Valencia College is dedicated not only to the advancement of knowledge and learning, but is concerned with the development of responsible personal and social conduct. By enrolling at Valencia College, a student assumes the responsibility for becoming familiar with and abiding by the general rules of conduct. The primary responsibility for managing the classroom environment rests with the faculty. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty member to leave the class. Violation of any classroom or Valencia's rules my lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

***Changes in the syllabus, course calendar, evaluation procedure, homework assignments, and/or other documents provided may be made at any time at my discretion. In case you are absent, it is your responsibility to find out what, if any, announcements or changes are made.

Important Dates Fall 2013

August 26	Classes Begin
September 2	Labor Day - No Class
September 18	Test 1: Descriptive Statistics and Study Design
October 16	Test 2: Basic Normal Curves, Sampling Distributions
November 1	Withdrawl Deadline
November 13	Test 3: Confidence Intervals and Hypothesis Tests
November 27-29	Thanksgiving: No Classes
December 4	Test 4: Scatterplots, Linear Regression, Correlation
December 6	Final Class
December 11, 7 AM	Final Exam