

# Statistical Methods STA 2023: Fridays, Osceola Campus

Instructor: Ms. Katrina Teño, M.S.

Spring 2014

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**Section Information:** CRN 27329; F 9:00 AM - 11:45 AM, 1-114

## **Required Materials:**

1. Text: ***Essential Statistics: Exploring the World through Data*** Robert Gould, *University of California, Los Angeles*, Colleen L. Ryan, *California Lutheran University*, Pearson 2014, ISBN: 9780321836984.

You may purchase an eBook version of this text here: <http://www.coursesmart.com/0321838408>  
**You must own your own copy of the textbook, including a code for MyStatWorld.** I will be using MyStatWorld for homework and tests throughout the course.

2. Writing Materials: binder, college ruled notebook paper, graph paper, pencil, eraser
3. Graphing Calculator: : I will be using a TI 84 Plus Silver Edition for classroom demonstration. I expect every student to have graphing calculators with statistical capability for homework and exams. If you are using a calculator other than the TI-83 or TI-84, it is your responsibility to understand how to use your calculator. Computers and cell phones DO NOT substitute for graphing calculators. Students may borrow calculators from the Math Labs (1-142) or the Mathematics department (4-231) if the need arises, but are expected to own their own for assignments and tests.
4. E-mail: All notifications are done through Atlas, and it is the best way to communicate with me. Be sure to check your email at least twice a week. E-mails should be sent through Atlas as all other e-mail services can be marked as spam. E-mail should be spell checked and grammatically correct, as a professional courtesy.

**Prerequisite:** MAC 1102, 1104, or 1105 with a grade of “C”. Entry placement tests may substitute for course prerequisites.

**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. This is particularly important for this course, as it only meets once a week. Students are responsible for all class materials and any announcements made in class even when absent. If you miss one class, 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 arrive late, leave early, or miss a class, notify me by email before the start of class.

**Electronics:** I allow for electronics use for approved academic purposes (reference to electronic versions of course materials, note taking, lecture recording) as long as you notify me at the start of the semester that you will be using your electronics for this purpose. However, devices do not substitute for your graphing calculators. Please do not use class time for personal reasons - this includes communication of any form on electronic devices in class. **NOTE THAT ANY ELECTRONIC DEVICE USAGE DURING AN EXAM WILL COUNT AS ACADEMIC DISHONESTY AND WILL BE REPORTED ACCORDINGLY.** Applications, mobile or otherwise, **DO NOT** replace usage of a graphing calculator in the test environment.

**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 (2-140A) 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 four exams throughout the semester. Projects must be brought in on time, and exams should be taken on the day assigned except in cases of absolute emergency. Unexcused missed exams and late projects 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** – Completion of homework is critical to student success. Specific homework problems are assigned for each section to be covered. Students are encouraged to work in groups, but not required; each student should understand the work as an individual. Each lecture, I will select a student at random to present their homework to the class; these presentations will count as your homework grade for the semester. Your homework grade is less dependent on your ability to do the work immediately as it is your willingness to participate and demonstrate what you have learned so far.

**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. I note alongside attendance who has

participated in each course period; be a part of the dialogue or otherwise demonstrate your knowledge for at least half of the class periods to earn this grade.

*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 Spring 2014 semester is March 21, 2014. 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.

**Grade Grievance:** If an issue comes up regarding your grade, Valencia College has a policy by which to appeal. It is your responsibility to have all the materials needed to dispute your grade. If you think this will be a concern, be sure to save all grades you get from me! To find out more and see all the paperwork and documentation you would need to file a grievance, go here: <http://valenciacollege.edu/students/Disputes/checklist.cfm>

**Student Success, Tutoring and Support Materials:** Your tuition at Valencia College pays for the privilege of working with me and the resources the college provides to give you the environment you need to succeed; that being said, you need to contribute in order to do well in this course and beyond. I am a firm believer that **every person can succeed in mathematics with hard work. Reading the textbook before class and working on problems on your own** is a huge key; **do not be afraid to ask questions** in class or otherwise (especially since this counts towards the 5% participation grade!), and **work in groups** to enhance your understanding.

There is **free tutoring** available in the Math Labs (1-142). **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 provided by Valencia faculty: <http://valenciacollege.edu/math/livescribe.cfm>

Valencia College offers a variety of tools for navigating the college, counseling and advising, financial aid, registration, and career/education goals. The **Answer Center, Student Services, and Advising and Counseling** offices are all in Building 2, as well as online. **LifeMap** is an online resource available through ATLAS for career and educational goals.

In addition to specific help on coursework and navigating college life, Valencia College is interested in making sure all our students have a rewarding and successful college experience. Students can get immediate help that may assist them with psychological issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, and time management, as well as relationship problems dealing with school, home, or work. Students have 24-hour unlimited access to the BayCare Behavioral Health’s **confidential student assistance program** phone counseling service by calling **(800) 878-5470**. Three free confidential face to face counseling sessions are also available to students.

**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 may 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 Spring 2014

January 6	Classes Begin
January 24	Test 1: Descriptive Statistics and Study Design
February 7	Learning Day: NO CLASS
February 21	Test 2: Basic Normal Curves, Sampling Distributions
March 21	Withdrawal Deadline
March 28	Test 3: Confidence Intervals and Hypothesis Tests
April 11	Test 4: Scatterplots, Linear Regression, Correlation
April 18	Final Class
April 25, 8 AM	Final Exam