**SYLLABUS: STA 2023- ONLINE** (CRN 30173 and CRN 30800) – Statistical Methods – Summer-A 2019

Instructor: Lynn Howard  
Email: LHoward13@valenciacollege.edu  
Skype: ID: Prof.L.Howard

Office Hours (7-212)  
Mon & Wed: 10:45pm – 11:45pm  
Mon & Wed: 01:45pm – 03:45pm  
Tues: 03:00pm – 05:00pm

Office Hours (Email)  
Thurs: 8:30am – 9:30am  
Fri: 8:30am – 9:30am

Instructor’s Preference for Contact  
EMAIL (Canvas or Atlas)

**Prerequisite:** Grade of C or better in STA1001, MAT 1033 or MAC1105 or satisfactory score on an approved assessment.

**Course Description:** Introductory statistics course covering data collection, description, & interpretation. Topics: sampling, summarizing data graphically and numerically, probability distributions, confidence intervals, hypothesis testing, correlation, regression. Minimum grade of C required if STA 2023 is used to satisfy Gordon Rule and general education requirements.

**Required Educational Materials**

- **Calculator:** TI 84 or TI 83 Calculator
  (Follow instructor’s directions for purchase and registration available online in Canvas the 1st day of class)

**Attendance:** Participation in online activities (Discussions, Assignments & Email) is similar to attendance in an on-campus course. Students are expected to participate in all online discussion activities and homework. Students are to complete all work on time. Work & Tests must be submitted on or before the due date. **Late work is NOT accepted.** Students are responsible for all information and announcements made in the Valencia-Atlas email and Canvas class environment for this course including discussion board. Failure to respond within 72 hours to a direct email inquiry by your instructor is considered to be a violation of the class attendance policy and may result in deactivation of course components or withdrawal from the course. **Be Responsible! Respond to Email!**

**Valencia Core Competencies**

Valencia faculty have defined four interrelated competencies (**Think, Value, Communicate, Act**) that prepare students to succeed in the world community. These competencies are outlined in the College Catalog. In this course, you will further your mastery of those core competencies. Additional information is available online at the college web site at [http://valenciacollege.edu/competencies/](http://valenciacollege.edu/competencies/)

**Academic Honesty**

Students are expected to be in compliance with Valencia’s policies on academic honesty. Cheating & academic dishonesty of any type will not be tolerated. You are expected to do your own work on exams & assignments. Communicating with others during a test, providing or receiving exam information to or from other students is considered cheating. Lying to instructor to request special consideration is also academic dishonesty. Use of more time or resources than procedures define for an assignment or test is academic dishonesty. There are many other forms of academic dishonesty as well that your instructor will handle on a case-by-case basis. The instructor reserves the right to determine appropriate penalties within the aforementioned policies. **Be Honorable! Stay Honest!**

**Students With Disabilities**

Students with disabilities who qualify for academic accommodations must provide notification from the Office for Students with Disabilities (OSD) and discuss specific needs with the instructor, preferably during the first week of class. The Office for Students with Disabilities (West Campus: Bldg: SSB, Room 102, [http://www.valenciacollege.edu/osd/](http://www.valenciacollege.edu/osd/) ) determines accommodations based on appropriate documentation of disabilities. Contact numbers for the OSD office are as follows: 407-582-1523 (Phone), 407-582-1326 (Fax), 407-582-1222 (TTY), 407-992-8941 (VP-Sorenson VRS)

**Code of Conduct**

Valencia is dedicated not only to the advancement of knowledge and learning, but is concerned with the development of responsible personal and social conduct. The instructor believes that the class environment should be a safe learning environment for all people. **Actions or utterances (verbal, written, pictorial or otherwise) that intentionally or unintentionally create the perception of a hostile learning environment for other students or the instructor will not be tolerated.** Please follow proper “netiquette” when communicating online via email, discussion postings or other communication such as “text-chat” or “video-conversation”. Accepted “netiquette” practice can be found at: [http://valenciacollege.edu/oit/learning-technology-services/student-resources/academic-integrity/netiquette.cfm](http://valenciacollege.edu/oit/learning-technology-services/student-resources/academic-integrity/netiquette.cfm) By enrolling at Valencia, you are responsible for abiding by general rules of conduct. See: [http://valenciacollege.edu/pdf/studenthandbook.pdf](http://valenciacollege.edu/pdf/studenthandbook.pdf)

**Communication**

Misunderstandings, hurt feelings or frustration can sometimes occur quickly via written communication and/or in online environments without the face-to-face opportunity for clarification. Please BE PATIENT with each other, with the instructor and yourself. Try to do your best, to have good intentions and to take the viewpoint that others are doing the same. If you feel lost, confused, upset, or frustrated we’ll try our best together to change that. **You may email me at any time.** (Canvas email is preferable) I will answer within 24 hours (M-F), but often sooner. Please know that I as your instructor am doing my best as well!
Tutoring: Free tutoring on Valencia West Campus is available in the Math Support Center - Building 7, Room 240. Check it out! Counseling: Free help 24 hours a day is available through BayCare Behavioral Health Student Assistance Program for stress, anxiety, depression, adjustment, substance abuse, time management and relationship problems dealing with school, home or work. Call (800) 878-5470. Your instructor wants you to have a successful college & life experience! Get help when you need it!

Evaluation: Your grade for this course will be determined by: Tests/Quizzes (50%), Homework (20%) Discussions/Activities (10%), Comprehensive Final Exam (20%). All work and/or tests may or may not be weighted the same. Give your best effort to all tasks to get the best grade possible. Final grade calculations will be rounded to the nearest whole number & determined as follows:

- 90 – 100 (A)
- 80 – 89 (B)
- 70 – 79 (C)
- 60 – 69 (D)
- 00 – 59 (F)

A student who scores less than 60% on the final exam will be assigned no course grade above a “C” regardless of overall average. In other words, course grades of “A” or “B” require a final exam score of 60% or higher in addition to the averages listed above.

During the first week of the course, students will be required to introduce themselves online, begin discussing statistics, register for MyStatLab, and identify an instructor approved testing center location for the final exam. Any student who fails to “check-in” properly the first week by completing ALL parts of the assignments above (directions online), will be considered a “No-Show” and will be withdrawn by the instructor. Withdrawing in other circumstances is the responsibility of the student. A grade of W is assigned to students who withdraw before the term withdrawal deadline of JUN 07. A student is not permitted to withdraw after the withdrawal deadline. Any student who withdraws or is withdrawn during a third or subsequent attempt in the same course will be assigned an F. An enrolled student who does not take the final exam will receive a grade of F. Students are required to maintain a Florida address during this course. The final exam must be taken on-time in a proctored test center approved by the instructor inside the 50 United States.

<table>
<thead>
<tr>
<th>Date</th>
<th>Book Sections and Study Timeline</th>
<th>Due Dates: Tests – Homework - Discussions</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>Introductions &amp; Syllabus 1.1 Overview of Statistics, Vocabulary 1.2 Data Types 1.3 Experimental Design</td>
<td>#1 Check-in with the instructor &amp; Classmates (Directions online in Canvas) – Due 5/9</td>
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<td>(May 6-12)</td>
<td>The first week, there is much to get used to and much to get setup and organized and much to do. To be successful in this class you must organize yourself as fast as possible and keep Moving through the chapters! This Course will go Fast! – Good Luck!</td>
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<td>** May 11: (SAT) [Due Ch1 Discussions/Activities] ** May 12: (SUN) [Due Ch1 Homework &amp; Test]</td>
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<td>Week 2</td>
<td>2.1 &amp; 2.2 Frequency Distributions, Graphs/Charts/Displays 2.3 &amp; 2.4 Measures of Central Tendency and Variation 2.5 Position: Percentiles, Quartiles, Z-Scores</td>
<td>** May 18: (SAT) [Due Ch2 HW &amp; Discussions] ** May 19: (SUN) [Due Ch2 Test]</td>
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<td>(May 13-19)</td>
<td>** May 24: (FRI) [Due Ch4 HW &amp; Discussions] ** May 25: (SAT) [Due Ch4 Test] ** May 26: (SUN) [Due Ch5 HW]</td>
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<td>Week 3</td>
<td>5.1 &amp; 5.2 Normal Distribution &amp; Finding Probability 5.3 Find data value given a probability 5.4 Central Limit Theorem</td>
<td>** May 28: (TUE) [Due Ch5 Test]</td>
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<td>(May 20–26)</td>
<td>** Jun 01: (SAT) [Due Ch6 HW] ** Jun 02: (SUN) [Due Ch6 Test]</td>
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<td>Week 4</td>
<td>6.1 &amp; 6.2 Confidence Intervals (σ Known &amp; σ Unknown) 6.3 Confidence Intervals (Proportion) 7.1 Intro to Hypothesis Testing (1 Sample) 7.2 &amp; 7.3 Hypothesis Testing (1 Sample- σ Known &amp; σ Unknown) 7.4 Hypothesis Testing (1 Sample Proportions)</td>
<td>** Jun 07 (FRI): [Due Ch7 HW &amp; Discussions] ** Jun 08 (SAT): [Due Ch7 Test] ** Jun 09 (SUN): [Due Ch8 HW &amp; Discussions]</td>
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<td>(May27–Jun2)</td>
<td>** Jun 12 (WED): [Due Ch9 HW, Discussions &amp; Test] Jun 13: (THU): [Due Section 10.1 HW &amp; Test]</td>
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<td>Week 5</td>
<td>8.1 Hypothesis Testing (2 Sample Independent- σ Known) 8.2 Hypothesis Testing (2 Sample Independent- σ Unknown) 8.4 Hypothesis Testing (2 Sample Proportions) 8.3 Hypothesis Testing (2 Sample Dependent)</td>
<td>** Jun 10 (MON): [Due Ch8 Test]</td>
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<td>(Jun 03–09)</td>
<td>** Jun 07 (FRI): [Due Ch7 HW &amp; Discussions] ** Jun 08 (SAT): [Due Ch7 Test] ** Jun 09 (SUN): [Due Ch8 HW &amp; Discussions]</td>
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<td>Week 6</td>
<td>9.1 Correlation 9.2 Linear Regression 9.3 Measures of Regression &amp; Prediction Intervals 10.1 Goodness of Fit/Chi Square Test</td>
<td>** Jun 12 (WED): [Due Ch9 HW, Discussions &amp; Test] Jun 13: (THU): [Due Section 10.1 HW &amp; Test]</td>
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<td>(Jun 10-16)</td>
<td>** Jun 10 (MON): [Due Ch8 Test]</td>
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<td>Final Exam</td>
<td>Deadline for Final Exam (In Proctored testing center) DUE: JUN 15 (Valencia West Campus) DUE: JUN 12 (Other Campus or Out of State Locations)</td>
<td>EXAM DUE: JUN 15 (Saturday–West Campus) You may take the exam any date (starting 6/08 through the testing due date for your location. (*)</td>
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(*) If you prefer to take the final exam Monday June 17th you may do so on WEST Campus only starting at 9am & ending at 12pm. You MUST email the professor to request this date ahead of time. No exam will be given after this date and time.

Changes to syllabus, schedule, evaluation procedures, and/or assignments may occur at any time via atlas email or Canvas course environment at the discretion of the instructor. It is your responsibility to find out what, if any, announcements or changes have been made.

WELCOME TO STATISTICS ONLINE!