CRN 27736 (2:30am - 3:45pm Bldg 9-130 T Th)

Instructor: Lynn Howard
Email: LHoward13@valenciacollege.edu
Office/Phone:Bldg 7, Room 212 (407-582-5629)
Math Tutoring Lab :Bldg 7, Room 240
Skype: ID: Prof.L.Howard

**OFFICE HOURS**

<table>
<thead>
<tr>
<th>MON</th>
<th>1:00 – 3:15 &amp; 5:30–6:30</th>
<th>THURS : 1:45 – 2:15 &amp; 5:30 – 7:00</th>
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<tbody>
<tr>
<td>TUES</td>
<td>1:45 – 2:15 &amp; 5:30 – 6:15</td>
<td>FRIDAY : 9:00 – 10:15am (Email only)</td>
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<tr>
<td>WED</td>
<td>1:00 – 3:15</td>
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**Note: Students do not have permission to record (audio, video photo, text) communication sessions with the instructor. Permission to record for individual academic purposes may be granted upon request at instructor’s discretion.

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

Course Description: Introductory statistics course: Collection, Description & Interpretation of data. Topics; sampling, summarizing data graphically & numerically, probability distributions, confidence interval estimation, hypothesis testing, correlation & regression. Gordon Rule course: Minimum grade of C required if STA 2023 used to satisfy Gordon Rule & general education requirements.

Required Educational Materials

1. Calculator: TI 84 or TI-83 calculator

Attendance: Students are expected to attend every class, be punctual, participate in class activities and complete all assigned work. Students are responsible for all information presented and announcements made in class when they are absent. Additionally, Students are responsible for all information and announcements made in the Valencia-Atlas and Canvas email. In-class discussions & activities may occur every class and cannot be done in advance or “made up.” If you are absent or late, you will receive a grade of Zero for all activities and discussions missed. Participation in online homework, tests, and discussions is required. Online work must be submitted on or before the due date. Late work is NOT accepted for any reason. Participation in an on-campus final exam is required.

Cell Phones and Other Communication Devices: During class, electronic communication devices should be set such that they do not make noise or distracting visual signals. Ringing, beeping, buzzing, flashing lights, a cell phone that suddenly starts playing your favorite song, or sending messages to others in the same room, is disruptive to the learning environment, disrespectful to the instructor and your classmates.

Valencia Core Competencies:
Valencia faculty has 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 on the college web site at http://valenciacollege.edu/competencies/

Academic Honesty
Students are expected to be in compliance with Valencia College’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 and assignments. Talking during a test, providing or receiving exam content information 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 Valencia 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 (Bldg: SSB, Room 102) determines accommodations based on appropriate documentation of disabilities. Contact numbers for the OSD office are: 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 classroom should be a safe learning environment for all people. Actions or utterances that intentionally or unintentionally create the perception of a hostile learning environment for others will not be tolerated. By enrolling at Valencia, a student assumes the responsibility for abiding by the general rules of conduct. Further information may be found in the current student handbook at: http://valenciacollege.edu/pdf/studenthandbook.pdf

Tutoring: Free tutoring is available in the Math Support Center - Building 7, Room 240. Check it out!
**Evaluation:** Your grade for this course will be determined by: Tests/Quizzes (50%), Homework (20%), In-class and Online Activities/Discussions (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 and 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.

A student who misses the first week of class is considered a "No-Show" and will be withdrawn by the instructor. Withdrawing from the course in all other circumstances is the responsibility of the student. A grade of W will be assigned to students who withdraw from the course before the term withdrawal deadline of April 5th. A student is not permitted to withdraw after the withdrawal deadline. Any student who withdraws or is withdrawn from the class 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.

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<thead>
<tr>
<th>Date</th>
<th>Book Sections &amp; Study Schedule</th>
<th>Due Dates for Online Assignments</th>
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| Feb 12 (T) | Introductions, Syllabus & How the Class Works What is Statistics and Why Should you care about it? Activities: Statistical Statement, Bias, Experimental Design | Read Syllabus & Register for CourseCompass  
Read Chapter 1 (in the Online Book)  
As the semester continues read each chapter |
| Feb 14 (Th) | 2.1 & 2.2 Frequency Distributions, Graphs, Charts, Displays                                    | Feb15(FRI): [DUE Online Discussion:DataType]  
Feb16(SAT): [DUE Online Discussion:ExpEthics]  
Feb17(SUN): [DUE Ch1 Homework]              |
| Feb 19 (T) | 2.3/2.4 Measures of Central Tendency & Variation  
2.5: Position: Percentiles, Quartiles & Z-Scores                                               | Feb18(MON): [DUE Ch1 Test]                                                                   |
| Feb 21 (Th) | 4.1 Probability Distributions (Discrete)  
4.2 Binomial Distributions (Discrete)                                                            | Feb 24 (SUN): [DUE Ch2 Homework]                                                              |
| Feb 26 (T) | 5.1 Normal Distribution (Finding area under curve)  
5.2 Normal Distribution (Finding probability)                                                   | Feb 25 (MON): [DUE Ch2 Test]                                                                  |
| Feb 28 (Th) | 5.3 Find data value given probability/area  
5.4 Central Limit Theorem                                                                       | Mar 03 (SUN): [DUE Ch 4 Homework]                                                             |
| Mar 05 (T) | 6.1 & 6.2 Confidence Intervals (σ Known & σ Unknown)  
6.3 Confidence Intervals (Proportion)                                                           | Mar 04 (MON): [DUE Ch 4 Test]                                                                 |
| Mar 07 (Th) | 6.3 Confidence Intervals (Proportion) or and/or Begin 7.1                                       | Mar 10 (SUN): [DUE Ch5 Homework]                                                               |
| Mar 12 & 14 | SPRING BREAK (No Class)                                                                       | Mar 11 (MON): [DUE Ch5 Test]                                                                  |
| Mar 19 (T) | 7.1 Intro to Hypothesis Testing (1 Sample)                                                      | Mar 18 (MON): [DUE Ch6 Homework]                                                              |
| Mar 21 (Th) | 7.2 Finish/Review Hypothesis Testing (1 Sample σ Known)                                        | Mar 19 (TUES): [DUE Ch6 Test]                                                                 |
| Mar 26 (T) | 7.3 Hypothesis Testing (1 Sample- σ Unknown)                                                    | Mar 24 (SUN): [DUE Online Discussion:ErrorRisk]                                               |
| Mar 28 (Th) | 7.4 Hypothesis Testing (1 Sample-Proportion)  
*** Activity: Criteria/Conditions for Z Test vs T Test                                          | Mar 31 (SUN): [DUE Ch7 Homework]                                                               |
| Apr 02 (T) | 8.1 Hypothesis Testing (2 Sample Independent- σ Known)                                        | Apr 01 (MON): [DUE Ch7 Test]                                                                  |
| Apr 04 (Th) | 8.2 Hypothesis Testing (2 Sample Independent- σ Unknown)                                       | Apr 07 (SUN): [DUE Ch8 Homework]                                                               |
| Apr 09 (T) | 9.1, 9.2, 9.3 Correlation/Linear regression/prediction Interval                                 | Apr 08 (MON): [DUE Ch8 Test]                                                                  |
| Apr 11 (Th) | 10.1 Goodness of Fit/Chi Square Test                                                           | Apr 14 (SUN) [DUE:Ch9 & 10.1 Homework]                                                        |
| Apr 16 (T) | Catchup and/or Review for Final Exam                                                           | Apr 15 (MON) [DUE:Ch9 & 10.1 Test]                                                             |
| Apr 18 (Th) | Review for Final Exam                                                                          |                                                                                                  |
| Apr 25 (Th) | FINAL EXAM (01:00pm to 03:30pm)                                                                |                                                                                                  |

Changes to syllabus, schedule, evaluation procedures, and/or assignments may occur at any time at the discretion of the instructor. If you are absent, it is your responsibility to find out what, if any, announcements or changes have been made.

**WELCOME TO MIXED-MODE STATISTICS!**