

**STA 2023: Statistical Methods  
Summer 2024 Syllabus**

| Course Information          | Modality  | Meet Times   |                            | Classroom                  | CRN  |                |                |                |               |
|-----------------------------|---|--|----------------------------|----------------------------|--|----------------|----------------|----------------|---------------|
|                             | Face-to-Face  | Tue/Thu, 0800 - 0945   |                            | Building 3 Room 239        | 32611  |                |                |                |               |
| Instructor Information      | Professor   | E-Mail   |                            | Phone                      | Office   |                |                |                |               |
|                             | Dr. Jonathan Stevens  | <a href="mailto:jstevens41@valenciacollege.edu">jstevens41@valenciacollege.edu</a> |                            | 407-582-4120               | Building 1 Room 209  |                |                |                |               |
| Office Hours                | Monday  | Tuesday  | Wednesday                  | Thursday                   | Friday   |                |                |                |               |
|                             | 0700 - 0745<br>1200 - 1330  | 0700 - 0745<br>1200 - 1330   | 0700 - 0745<br>1200 - 1330 | 0700 - 0745<br>1200 - 1330 | 0900 - 1000<br>(virtual)   |                |                |                |               |
| Course Description          | <ul style="list-style-type: none"> <li>Course based on the study of topics that include graphical and numerical summaries of data, probability and random variables, confidence intervals, hypothesis testing, correlation, and simple linear regression. Students will use descriptive statistics, perform simple linear regression, and make decisions using inferential statistics.</li> </ul>   |  |                            |                            |  |                |                |                |               |
| Required Material           | <ul style="list-style-type: none"> <li>Notebook and pen/pencil</li> <li>TI-84 calculator</li> <li>Laptop or tablet with Wi-Fi capability</li> <li>StatCrunch account</li> </ul>   |  |                            |                            |  |                |                |                |               |
| Grade Calculation           | <ul style="list-style-type: none"> <li>This course is based on a 100-point scale. Your points will be calculated as follows:</li> </ul>   |  |                            |                            |  |                |                |                |               |
|                             | Module  | Sections   |                            |                            | Module Test  |                |                |                |               |
|                             | Module 1  | 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7  |                            |                            | 25 points  |                |                |                |               |
|                             | Module 2  | 2.1, 2.2, 2.3, 2.4, 2.5  |                            |                            | 25 points  |                |                |                |               |
|                             | Module 3  | 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7  |                            |                            | 25 points  |                |                |                |               |
|                             | Module 4  | 4.1, 4.2, 4.3, 4.4, 4.5  |                            |                            | 25 points  |                |                |                |               |
|                             | Total Possible Points   |  |                            |                            | 100 points   |                |                |                |               |
| A                           | B   | C  | D                          | F                          |  |                |                |                |               |
|                             |   |  |                            |                            | <ul style="list-style-type: none"> <li>Your final grade for the course is based upon the number of points earned:</li> </ul> |                |                |                |               |
|                             |   |  |                            |                            | 90 - 100 points  | 80 - 89 points | 70 - 79 points | 60 - 69 points | 0 - 59 points |
| Lectures                    | <ul style="list-style-type: none"> <li>It is imperative that students attend all lectures.</li> <li>Lectures serve as the foundation for the assigned HW, test reviews and tests.</li> </ul>  |  |                            |                            |  |                |                |                |               |
| Homework (HW)               | <ul style="list-style-type: none"> <li>Ungraded homework assignments will be assigned for each section and are found in the lecture notes.</li> <li>HW assignments reinforce what was learned in class and serve as invaluable practice opportunities.</li> </ul>   |  |                            |                            |  |                |                |                |               |
| Extra Credit (Test Reviews) | <ul style="list-style-type: none"> <li>For each test, there is a test review worth 1 extra credit point. There are 4 extra credit points available.</li> <li>Test reviews are closely correlated with each test. It is wise to complete these optional assignments.</li> <li>Students must print, complete, and turn in their test review on time to receive extra credit.</li> <li><b>Unprinted, incomplete, or late test reviews will not be accepted. All work must be shown.</b></li> </ul>   |  |                            |                            |  |                |                |                |               |
| Tests                       | <ul style="list-style-type: none"> <li>There are three tests and a final exam for this course. All tests are conducted in class.</li> <li><b>Each module's test is worth 25 points. Take your percent correct on the test and multiply by 25.</b></li> </ul>  |  |                            |                            |  |                |                |                |               |
| Final Exam                  | <ul style="list-style-type: none"> <li>The final exam will be conducted during regular class hours on the day listed in the course schedule.</li> <li>The final exam will only cover the last module and is not cumulative.</li> </ul>  |  |                            |                            |  |                |                |                |               |
| Attendance                  | <ul style="list-style-type: none"> <li>Attendance will be taken every class. Students are required to attend class to learn the material.</li> <li><b>Students are allowed 3 absences. For each absence after that, their final grade will be reduced by 5 points.</b></li> <li>If absent, it is the student's responsibility to determine what material was missed and to learn it.</li> </ul>   |  |                            |                            |  |                |                |                |               |
| Calculator & Laptop/Tablet  | <ul style="list-style-type: none"> <li>The TI-84 calculator is required. The TI-84 is the only authorized calculator for class, homework, and tests.</li> <li>Rentals are available at the Math Lab (1-144), Depot (4-121), Library (4-202), or Learning Center (3-100).</li> <li>A laptop/tablet with Wi-Fi capability is required. You must use a laptop/tablet (with only StatCrunch visible) for tests.</li> </ul>  |  |                            |                            |  |                |                |                |               |
| Canvas                      | <ul style="list-style-type: none"> <li>The course syllabus, lecture notes, homework, test reviews and grades will be posted to <a href="#">Canvas</a>.</li> <li>Students are responsible for reading any Canvas e-mail sent by the instructor. Please check Canvas regularly.</li> </ul>  |  |                            |                            |  |                |                |                |               |
| StatCrunch                  | <ul style="list-style-type: none"> <li><a href="#">StatCrunch</a> is the statistical software utilized in this course.</li> <li>To create your account, go to <a href="#">StatCrunch Registration</a> and purchase 6-month access to StatCrunch.</li> <li><b>Students must establish a StatCrunch account and e-mail a screenshot to the professor by 12:00 PM (noon) on May 10. Students who do not complete this week 1 assignment will be withdrawn from the course.</b></li> </ul>  |  |                            |                            |  |                |                |                |               |
| Technical Problems          | <ul style="list-style-type: none"> <li><b>It is the student's responsibility to ensure their laptop/tablet is ready, with StatCrunch already open, before the start of every class and test. StatCrunch does not require internet access after initial login.</b></li> <li><b>No class or test will be delayed due to non-functioning laptops/tablets or StatCrunch access issues.</b></li> </ul>   |  |                            |                            |  |                |                |                |               |
| Crawl-Walk-Run              | <ul style="list-style-type: none"> <li>To be successful in this course, students should follow the <b>Crawl-Walk-Run</b> learning model: <ul style="list-style-type: none"> <li><b>Crawl:</b> students attend class, arrive on time, and are prepared to learn <u>before</u> class starts.</li> <li><b>Walk:</b> students actively participate and actively learn <u>during</u> class.</li> <li><b>Run:</b> students work efficiently <u>after</u> class by studying their notes, re-working the in-class problems, completing the HW assignments and repeatedly completing the test review.</li> </ul> </li> </ul> |  |                            |                            |  |                |                |                |               |

|                        |  |                      |                                    |   |
|------------------------|--|----------------------|------------------------------------|---|
| <b>Conduct</b>         | <ul style="list-style-type: none"> <li>• Please be courteous and do not disrupt class. The instructor will dismiss a student disrupting class.</li> <li>• Students are required to be on time. <b>If late, quietly enter the classroom and sit at the first available desk.</b></li> <li>• To minimize distractions and maximize learning, <b>cellphones are not permitted in class.</b></li> <li>• E-mail is for administrative purposes, not for math questions. <b>All math questions will be answered face-to-face.</b></li> <li>• <b>Students found cheating, in any manner, will receive a final grade of F and be permanently dismissed.</b></li> </ul> |                      |                                    |   |
| <b>Make-Up Policy</b>  | <ul style="list-style-type: none"> <li>• <b>There are no make-up tests nor test retakes. Students who miss a test will receive a test score of zero.</b></li> <li>• <b>In the event of a valid and documented emergency, the instructor may approve a make-up test.</b></li> </ul>   |                      |                                    |   |
| <b>Miscellaneous</b>   | <ul style="list-style-type: none"> <li>• There are no faculty-withdrawals at Valencia College. The self-withdrawal deadline is <b>June 28</b>.</li> <li>• Students with an OSD accommodation letter must see the professor to discuss course testing procedures.</li> <li>• This syllabus may change. Students will be notified of changes and provided a revised syllabus in Canvas.</li> </ul>   |                      |                                    |   |
| <b>Course Schedule</b> | <b>Date</b>  | <b>Class</b>         | <b>Activity</b>                    | <b>Homework (HW)</b>  |
|                        | 7-May  | 1                    | Syllabus Review, 1.1 Lecture       | Create StatCrunch Account, Open StatCrunch, Test Review #1 Posted, 1.1 HW |
|                        | 9-May  | 2                    | 1.2 Lecture                        | Bring Laptop/Tablet to Class, 1.2 HW                                      |
|                        | 14-May   | 3                    | 1.3 Lecture                        | Bring Laptop/Tablet to Class with StatCrunch Open, 1.3 HW                 |
|                        | 16-May   | 4                    | 1.4 Lecture                        | 1.4 HW  |
|                        | 21-May   | 5                    | 1.5, 1.6 Lecture                   | 1.5 HW, 1.6 HW  |
|                        | 23-May   | 6                    | 1.6, 1.7 Lecture, Test Protocol    | 1.6 HW, 1.7 HW, Study for Test #1   |
|                        | 28-May   | 7                    | Test #1                            | NLT 0800: Test Review #1 Due  |
|                        | 30-May   | 8                    | Test #1 Feedback, 2.1, 2.2 Lecture | Test Review #2 Posted, 2.1 HW, 2.2 HW                                     |
|                        | 4-Jun  | 9                    | 2.2, 2.3 Lecture                   | 2.2 HW, 2.3 HW  |
|                        | 6-Jun  | 10                   | 2.4 Lecture                        | 2.4 HW  |
|                        | 11-Jun   | 11                   | 2.5 Lecture                        | 2.5 HW, Study for Test #2   |
|                        | 13-Jun   | 12                   | Test #2                            | NLT 0800: Test Review #2 Due  |
|                        | 18-Jun   | 13                   | Test #2 Feedback, 3.1, 3.2 Lecture | Test Review #2 Posted, 3.1 HW, 3.2 HW                                     |
|                        | 20-Jun   | 14                   | 3.2, 3.3 Lecture                   | 3.2 HW, 3.3 HW  |
|                        | 25-Jun   | 15                   | 3.3, 3.4 Lecture                   | 3.3 HW, 3.4 HW  |
|                        | 27-Jun   | 16                   | 3.5 Lecture                        | 3.5 HW  |
|                        | 2-Jul  | 17                   | 3.6 Lecture                        | 3.6 HW  |
|                        | 4-Jul  |                      | <b>July 4th - No Class</b>         |   |
|                        | 9-Jul  | 18                   | 3.7 Lecture                        | 3.7 HW, Study for Test #3   |
|                        | 11-Jul   | 19                   | Test #3                            | NLT 0800: Test Review #3 Due  |
|                        | 16-Jul   | 20                   | Test #3 Feedback, 4.1, 4.2 Lecture | Test Review #4 Posted, 4.1 HW, 4.2 HW                                     |
|                        | 18-Jul   | 21                   | 4.2, 4.3 Lecture                   | 4.2 HW, 4.3 HW  |
|                        | 23-Jul   | 22                   | 4.3, 4.4 Lecture                   | 4.3 HW, 4.4 HW  |
| 25-Jul                 | 23   | 4.4, 4.5 Lecture     | 4.4 HW, 4.5 HW, Study for Test #4  |   |
| 30-Jul                 | 24   | Test #4 (Final Exam) | NLT 0800: Test Review #4 Due       |   |