

STA 2023: Statistical Methods

Fall 2024 Syllabus

Course Information	Modality Face-to-Face	Meet Times Tue/Thu, 1130 - 1245		Classroom Building 3 Room 239	CRN 12365
Instructor Information	Professor Dr. Jonathan Stevens	E-Mail jstevens41@valenciacollege.edu		Phone 407-582-4120	Office Building 1 Room 209
Office Hours	Monday 0700 - 0800 1145 - 1245 1430 - 1500	Tuesday 0715 - 0815 1300 - 1430	Wednesday 0700 - 0800 1145 - 1245 1430 - 1500	Thursday 0715 - 0815 1300 - 1430	Friday 0700 - 0800
Course Description	<ul style="list-style-type: none"> 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. 				
Required Material	<ul style="list-style-type: none"> Notebook and pen/pencil TI-84 calculator Laptop or tablet with Wi-Fi capability StatCrunch account 				
Grade Calculation	<ul style="list-style-type: none"> This course is based on a 100-point scale. Your points will be calculated as follows: 				
	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
<ul style="list-style-type: none"> Your final grade for the course is based upon the number of points earned: 					
	A	B	C	D	F
	90 - 100 points	80 - 89 points	70 - 79 points	60 - 69 points	0 - 59 points
Lectures	<ul style="list-style-type: none"> It is imperative that students attend all lectures. Lectures serve as the foundation for the assigned HW, test reviews and tests. 				
Homework (HW)	<ul style="list-style-type: none"> Ungraded homework assignments will be assigned for each section and are found in the lecture notes. HW assignments reinforce what was learned in class and serve as invaluable practice opportunities. 				
Extra Credit (Test Reviews)	<ul style="list-style-type: none"> For each test, there is a test review worth 1 extra credit point. There are 4 extra credit points available. Test reviews are closely correlated with each test. It is wise to complete these optional assignments. Students must print, complete, and turn in their test review on time to receive extra credit. Unprinted, incomplete, or late test reviews will not be accepted. All work must be shown. 				
Tests	<ul style="list-style-type: none"> There are three tests and a final exam for this course. All tests are conducted in class. Each module's test is worth 25 points. Take your percent correct on the test and multiply by 25. 				
Final Exam	<ul style="list-style-type: none"> The final exam will be conducted during regular class hours on the day listed in the course schedule. The final exam will only cover the last module and is not cumulative. 				
Attendance	<ul style="list-style-type: none"> Attendance will be taken every class. Students are required to attend class to learn the material. Students are allowed 3 absences. For each absence after that, their final grade will be reduced by 5 points. If absent, it is the student's responsibility to determine what material was missed and to learn it. 				
Calculator & Laptop/Tablet	<ul style="list-style-type: none"> The TI-84 calculator is required. The TI-84 is the only authorized calculator for class, homework, and tests. Rentals are available at the Math Lab (1-144), Depot (4-121), Library (4-202), or Learning Center (3-100). A laptop/tablet with Wi-Fi capability is required. You must use a laptop/tablet (with only StatCrunch visible) for tests. 				
Canvas	<ul style="list-style-type: none"> The course syllabus, lecture notes, homework, test reviews and grades will be posted to Canvas. Students are responsible for reading any Canvas e-mail sent by the instructor. Please check Canvas regularly. 				
StatCrunch	<ul style="list-style-type: none"> StatCrunch is the statistical software utilized in this course. To create your account, go to StatCrunch Registration and purchase 6-month access to StatCrunch. Students must establish a StatCrunch account and e-mail a screenshot to the professor by 12:00 PM (noon) on August 23. Students who do not complete this week 1 assignment will be withdrawn from the course. 				
Technical Problems	<ul style="list-style-type: none"> 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. No class or test will be delayed due to non-functioning laptops/tablets or StatCrunch access issues. 				
Crawl-Walk-Run	<ul style="list-style-type: none"> To be successful in this course, students should follow the Crawl-Walk-Run learning model: <ul style="list-style-type: none"> Crawl: students attend class, arrive on time, and are prepared to learn <u>before</u> class starts. Walk: students actively participate and actively learn <u>during</u> class. Run: 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. 				

Conduct	<ul style="list-style-type: none"> • Please be courteous and do not disrupt class. The instructor will dismiss a student disrupting class. • Students are required to be on time. If late, quietly enter the classroom and sit at the first available desk. • To minimize distractions and maximize learning, cellphones are not permitted in class. • E-mail is for administrative purposes, not for math questions. All math questions will be answered face-to-face. • Students found cheating, in any manner, will receive a final grade of F and be permanently dismissed. 			
Make-Up Policy	<ul style="list-style-type: none"> • There are no make-up tests nor test retakes. Students who miss a test will receive a test score of zero. • In the event of a valid and documented emergency, the instructor may approve a make-up test. 			
Miscellaneous	<ul style="list-style-type: none"> • There are no faculty-withdrawals at Valencia College. The self-withdrawal deadline is October 25. • Students with an OSD accommodation letter must see the professor to discuss course testing procedures. • This syllabus may change. Students will be notified of changes and provided a revised syllabus in Canvas. 			
Course Schedule	Date	Class	Activity	Homework (HW)
	20-Aug	1	Syllabus Review, 1.1 Lecture	Create StatCrunch Account, Open StatCrunch, Test Review #1 Posted, 1.1 HW
	22-Aug	2	1.2 Lecture	Bring Laptop/Tablet to Class, 1.2 HW
	27-Aug	3	1.3 Lecture	Bring Laptop/Tablet to Class with StatCrunch Open, 1.3 HW
	29-Aug	4	1.4 Lecture	1.4 HW
	3-Sep	5	1.5 Lecture	1.5 HW
	5-Sep	6	1.6 Lecture	1.6 HW
	10-Sep	7	1.7 Lecture, Test Protocol	1.7 HW, Study for Test #1
	12-Sep	8	Test #1	NLT 1130: Test Review #1 Due
	17-Sep	9	Test #1 Feedback, 2.1 Lecture	Test Review #2 Posted, 2.1 HW
	19-Sep	10	2.2 Lecture	2.2 HW
	24-Sep	11	2.3 Lecture	2.3 HW
	26-Sep	12	2.4 Lecture	2.4 HW
	1-Oct	13	2.5 Lecture	2.5 HW, Study for Test #2
	3-Oct	14	Test #2	NLT 1130: Test Review #2 Due
	8-Oct	15	Test #2 Feedback, 3.1 Lecture	Test Review #3 Posted, 3.1 HW
	10-Oct	16	3.2 Lecture	3.2 HW
	15-Oct	17	3.3 Lecture	3.3 HW
	17-Oct	18	3.4 Lecture	3.4 HW
	22-Oct	19	3.5 Lecture	3.5 HW
	24-Oct	20	3.6 Lecture	3.6 HW
	29-Oct	21	3.7 Lecture	3.7 HW, Study for Test #3
	31-Oct		Test #3 Preparation Day	Study for Test #3
	5-Nov	22	Test #3	NLT 1130: Test Review #3 Due
	7-Nov	23	Test #3 Feedback, 4.1 Lecture	Test Review #4 Posted, 4.1 HW
	12-Nov	24	4.2 Lecture	4.2 HW
	14-Nov	25	4.3 Lecture	4.3 HW
	19-Nov	26	4.4 Lecture	4.4 HW
21-Nov	27	4.5 Lecture	4.5 HW, Study for Test #4	
26-Nov		Thanksgiving - No Class		
28-Nov		Thanksgiving - No Class		
3-Dec	28	Test #4 (Final Exam)	NLT 1130: Test Review #4 Due	