STA 2023 Elementary Statistics Spring 2020 Blended

MEETING INFORMATION:

Course Location: SA118
Meeting Day: Monday
Class Times: 5:30PM-6:45PM

Instructor: Dr. Carol Weideman
Email: weideman.carol@spcollege.edu
Office: Gibbs/SA 229
Phone: 727-341-4312
Fax: 727-341-3442

Math: Nydia Nelson, Academic Chair
Dept: SP/Gibbs SA215 727-341-4757

Office Hours: See Instructor Page (https://web.spcollege.edu/instructors/id/Weideman.Carol)

Description: This course includes concepts taken from topics which include descriptive statistics, frequency distributions and graphics, measures of central tendency and dispersion, probability, probability distributions, sampling distributions, binomial distribution, normal distribution, the student's t distribution, the Chi-square distribution, estimation using confidence intervals, hypothesis testing, linear regression and correlation. Prerequisite: MAT 1033, MAT1100 or appropriate Placement Test score.

Major Learning Outcomes:
1. The student will utilize descriptive statistics
2. The student will utilize probabilistic theory to make statistical inferences
3. The student will utilize fundamental concepts of random variables and sampling distributions as they apply to statistical inferences
4. The student will apply fundamental concepts of confidence intervals and hypothesis tests to practical problems in today's society
5. The student will apply the basic principles of simple linear regression and correlation as well as their applications to practical problems in today's society
6. The student will apply basic principles of nonparametric tests

Course Materials: The textbook for this course is Essentials of Statistics, 6th ed by Triola. We will use MyStatLab exclusively so the MyLab Statistics Student Access Kit is required: ISBN: 9780134870113. The MyStatLab site contains an e-textbook that is identical to the printed textbook. If you wish to buy a printed book, the ISBN is for the book with the MyLab Statistics Student Access Kit is 9780134858517. There is a direct link to MyStatLab on the homepage in MyCourses. Some type of scientific calculator will also be helpful during the course.

My personal course Information and Rationale:

The mode of instruction for this class will be quite different than that of a traditional mathematics class. We will make extensive use of computers throughout the term, using MyStatLab to explore the concepts of statistics through multimedia activities and using StatCrunch to complete data analysis assignments.
I believe that **active learning**, particularly cooperative learning, is a very effective method for students to learn mathematics. In our course, active learning will be accomplished through StatCrunch activities, Readings, and Group Projects.

Students who are successful in this course log into MyCourses regularly, complete assignments on time and actively participate in class. Time management is essential for success in the blended environment. The syllabus shows all course assignment due dates and you should plan each week to ensure you utilize both test attempts. All due dates and times for homework/tests/reading quizzes/projects are also listed on the Course Calendar. Please note the dates so that you can arrange your schedule to meet the deadlines.

The following tools will be used extensively during the course:

- **The e-text, *Essentials of Statistics*** is similar to other texts, providing examples, homework, and answers to odd problems. The e-book includes videos and activities which are imbedded in the text and present the concepts of statistics in short varied media.
- **StatCrunch**, a statistics program available in our course in MyStatLab, will be the primary tool we use for data analysis. You will learn many of the different types of analysis possible with *StatCrunch* and how to copy and paste the results into reports. The abilities of analyzing data and writing reports are both “marketable” skills you will practice during this class.
- **Syllabus** provides the interface between the MyStaLab course and the text.
- **MyCourses** provides the course structure, course news, in-class email for private communication, assignments, and access to section handouts.
- **Handouts**: I have prepared handouts for each section and you are strongly encouraged to access these from the unit modules.
- **Videos**: For those chapters where StatCrunch is used, I have created videos which are found in MyCourses in the respective chapter module.

**Computers**: MyStatLab, including StatCrunch is designed to run on either a PC or a Macintosh computer. This cross-platform capability provides students with the flexibility of completing class work on their personal computer or on the computers in the labs at SPC. StatCrunch can also be accessed on your smart phone or tablet. You may also use any of the computers in the library or labs on campus. If you use your home computer, you must have a Java enabled Internet browser.

For help with MyCourses or other technical issues, contact the SPC Technical Help Desk at (727) 341-4357, or e-mail helpdesk@spcollege.edu. Make sure you can describe the problem completely.
Grading: Your course grade will be determined by the following components and scale.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight in Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading Quizzes (MyCourses) drop lowest</td>
<td>15%</td>
</tr>
<tr>
<td>Homework (MyStatLab) drop lowest</td>
<td>25%</td>
</tr>
<tr>
<td>Unit Tests (MyStatLab) drop lowest</td>
<td>30%</td>
</tr>
<tr>
<td>Projects (MyCourses)</td>
<td>20%</td>
</tr>
<tr>
<td>Final Project (MyCourses)</td>
<td>10%</td>
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</tbody>
</table>

Final Average = .15(Reading Quiz Average) + .25(Homework Average) + .30(Quiz Average) + .2(projects) + .1(final project)

A: 90-100%  B: 80-89%  C: 70-79%  D: 60-69%  F: 0-59%

Note: A grade of “C” or better must be earned in this course to satisfy the General Education Requirements for the AA/AS degree.

Reading Quizzes (15% of grade): Reading quizzes are submitted each week and are due on Sunday by 11PM. **Since this is a blended class, students are expected to read the assigned materials each week before coming to class.** The weekly reading quizzes include questions from the section handouts and students are asked to reflect on these concepts. The reading quizzes will provide feedback to me about the materials to be covered in class. You should carefully consider what you’ve read, what you are having trouble understanding and include that in your reading quiz (last question). You have 2 attempts for each reading quiz; the highest grade is used for your course average.

Homework (25% of grade): There is MyStatLab homework assigned for each section (27 total assignments). Each homework has 10-20 problems that demonstrate the concepts covered in the section. The homework is due on Monday of the week after we cover the material in class and the dates are shown in MyStatLab, MyCourses calendar and in the weekly schedule at the end of this syllabus. If you access homework at least once before the due date, you can redo the homework at a later date to improve your homework grade. Therefore, you have unlimited attempts for the homework problems.

Unit tests (30% of grade): are located in MyStatLab and are due on **Monday, 11PM** of the week after the material is assigned. **You must earn at least 60% on each homework in order to open the unit test.** You are given 2 attempts for each test; the highest grade is recorded for each test. Please note that some test questions will change on the second attempt so read each question carefully. The test grades will be available after the test is submitted. You will be able to see which answers were incorrect and you can use your second attempt to improve your score.

PLEASE NOTE THAT THE SYLLABUS QUIZ LOCATED IN THE BEGIN HERE MODULE IN MyCourses IS MANDATORY. You will not have access to the course materials in MyCourses unless you complete this syllabus quiz.

Projects (20% of grade) are due by the date provided with the project instructions. Projects will be assigned to groups of students; no individual student submissions for projects will be accepted. There will be three unit projects during the semester. Projects submitted after the due date will be accepted, **however**, the score for the project will be dropped by one letter grade for every day beyond the due date. For example, if a project is due on Monday, February 10 and it is submitted on Tuesday,
February 11, the project grade will be lowered by 1 letter grade since the project was submitted 1 day late.

Project reports that are submitted on time which do not receive all points shown in the grading rubric can be resubmitted within 7 days; the resubmitted report may be awarded additional points, up to a maximum of ½ of the points not originally earned. **Project reports submitted late are not eligible for resubmission.**

**Final Project (10% of grade):** This project is also completed as a group project and is due on the last night of class. No rework is allowed for the Final Project.

**Attendance/Class Participation:**

Class participation is critical to your success in this course. **Attendance will be taken at the beginning of each class. It is your responsibility to sign-in on the attendance log for the class.** Attendance will be recorded in the MyCourses course. If your final course grade falls below two letter grades, your attendance and class participation will be used to determine if you will receive the higher letter grade.

Active participation for weeks 1 and 2 means that you have attended class, completed the syllabus quiz with a score of 100%, registered in MyStatLab and completed the assignments for weeks 1 and 2 listed in the weekly schedule.

Active participation for the week following March 25, 2020 means that you have attended class and completed the assignments due that week listed in the weekly schedule.

**Attendance:** Regular attendance/active participation is encouraged. Students who complete assignments by the due date are much more likely to successfully complete the course. Attendance will be taken during the first two weeks of class and during the week following March 25, 2020. You will be administratively withdrawn if you are not actively participating (attending class and submitting the assignments due during that week) in the class during these times. Please note that withdrawals from this class can ONLY be initiated by the student. The instructor CANNOT withdraw you from the class.

**WITHDRAWALS:**
Students may not change from credit to audit after the end of the first week of classes. The last day that a student can withdraw and receive a refund is January 17. Students may not change from credit to audit after the end of the first week of classes. The last day that a student may withdraw with a course grade of “W” is March 25, 2020. **NO W’S ARE GIVEN AFTER March 25, 2020.**

It is the responsibility of the student wishing to withdraw from the course to do so by March 25, 2020. Any student wishing to withdraw from the course must do so his or her self online in the MY SPC registration area found at [http://www.spccollege.edu](http://www.spccollege.edu). All students registered in the course after March 25, 2020 will receive a grade as outlined in your syllabus.

If this is your third time taking the course, you cannot withdraw (State of Florida regulation), and not meeting the attendance requirement will result in a grade of F. Students who abandon the course or do not withdraw themselves by March 25, 2020 are subject to receive a grade of F or WF.
Communication with Instructor: Please use the course email system to communicate with your instructor. You may also contact me in my office at the phone number listed at the top of the syllabus.

I will respond to your messages generally within 24 hours, however all messages will be answered within 48 hours unless I notify you via the course email or by course announcement that I will be not be able to respond within this 48 hour window.

Tutors: The Learning Support Center (LSC) or Information Commons at each campus provide free math/statistics tutoring. Staff and student tutors are available to help you with your mathematics/statistics problems. Check the LSC or Information Commons for hours of availability.

Library: Students may access the services on the online library on the MyCourses homepage, lower right side.

STUDENT SURVEY OF INSTRUCTION

Every student is expected to complete the Student Survey of Instruction survey which will be available online about three quarters of the way through the class. The survey is used to determine the strengths and weakness of the course material and instruction. It is anonymous, and students will be able to check NA to every question if they wish to do so.

We hope that all students will take the time and provide us with the evaluation feedback which is so helpful in improving our courses and College. Your feedback is very important to me as your instructor. The results for this survey are not available to your instructor until after the end of the semester and final grades have been entered.

Learner Support:

Accessibility: www.spcollege.edu/dr The Office of Accessibility Services is available to assist you if you have a documented disability or think that you may have a disability. Please make an appointment with the Accessibility Coordinator on your campus or online. Registering with Accessibility Services is especially important if you are on campus and will need assistance during an emergency classroom evacuation.

Academic Support Services: www.spcollege.edu/support
On-Campus Support: www.spcollege.edu/tutoring/#tab=2
Online Support: www.spcollege.edu/tutoring/#tab=3
Student Services and Resources: www.spcollege.edu/services
Syllabus Addendum: www.spcollege.edu/addendum
Academic Honesty: www.spcollege.edu/academichonesty
Support: www.spcollege.edu/helpdesk

Titans Care

As an SPC student it's vital that you know Titans Care. You can access resources through SPC's Student Assistance Program (SAP), a collaborative resource for students with mental health or general life issues. SAP provides help and education in suicide prevention, mental health, substance abuse awareness and more. It is SPC's belief that supporting mental wellness is everyone's charge, and that one loss as a result of substance abuse, mental illness, or suicide is one too many. If you or a loved one are considering suicide, please call the National Suicide Prevention Lifeline at 1-800-273-8255.
### STA2023 Spring 2020 (Blended) Detailed Weekly Syllabus

The schedule below shows the material covered each week. MyStatLab Homework and quizzes are accessed from that website. In MyCourses, there are Units of Study Modules on the Table of Contents. Each unit module contains handouts, and related materials. Reading quizzes located in the respective unit module in MyCourses and are due on Sunday, 11PM. Other assignments are always due by 11PM on Monday of the week after the material is covered.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Unit</th>
<th>Section(s) Covered</th>
<th>MyCourses Assignments</th>
<th>MyStatLab Assignments</th>
<th>Projects*</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEK 1</td>
<td>1/13</td>
<td>1</td>
<td>Section 1.1</td>
<td>Syllabus Quiz Due 1/21 11PM</td>
<td>Section 1.1 Due 1/27 11PM</td>
<td></td>
</tr>
<tr>
<td>WEEK 2</td>
<td>1/20 No Class: Martin Luther King Birthday: College Closed</td>
<td>2</td>
<td>Sections 1.2, 1.3</td>
<td>Reading Quiz sections 1.2, 1.3 Due 1/26 11PM</td>
<td>Sections 1.2, 1.3, Unit 1 Test Due 2/3 11PM</td>
<td></td>
</tr>
<tr>
<td>WEEK 3</td>
<td>1/27</td>
<td>3</td>
<td>Sections 4.1, 4.2</td>
<td>Reading Quiz sections 4.1-4.2 Due 2/16 11PM</td>
<td>Sections 4.1, 4.2 Due 2/24 11PM</td>
<td>Project 1</td>
</tr>
<tr>
<td>WEEK 4</td>
<td>2/10</td>
<td>3</td>
<td>Section 8.1</td>
<td>Reading Quiz Section 8.1 Due 4/5 11PM</td>
<td>Section 8.1 Due 4/13 11PM</td>
<td></td>
</tr>
<tr>
<td>WEEK 5</td>
<td>3/2</td>
<td>5</td>
<td>Sections 8.2, 8.3</td>
<td>Reading Quiz Sections 8.2-8.3 Due 4/12 11PM</td>
<td>Sections 8.2, 8.3 Unit 5 Test Due 4/20 11PM</td>
<td>Final Project Preliminary Work</td>
</tr>
<tr>
<td>WEEK 6</td>
<td>3/9 No Class: Spring Break</td>
<td>6</td>
<td>Sections 2.4, 10.1, 10.2</td>
<td>Reading Quiz Sections 2.4, 10.1, 10.2 Due 4/19 11PM</td>
<td>Sections 2.4, 10.1, 10.2 Due 4/27 11PM</td>
<td></td>
</tr>
<tr>
<td>WEEK 7</td>
<td>3/16</td>
<td>4</td>
<td>Sections 6.1, 6.2</td>
<td>Reading Quiz Sections 6.1-6.2 Due 3/15 11PM</td>
<td>Sections 6.1, 6.2 Due 3/23 11PM</td>
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<tr>
<td>WEEK 8</td>
<td>3/23</td>
<td>5</td>
<td>Sections 7.1, 7.2</td>
<td>Reading Quiz Sections 7.1-7.2 Due 3/29 11PM</td>
<td>Sections 7.1, 7.2 Due 4/6 11PM</td>
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<tr>
<td>WEEK 9</td>
<td>4/6</td>
<td>5</td>
<td>Section 8.1</td>
<td>Reading Quiz Section 8.1 Due 4/5 11PM</td>
<td>Section 8.1 Due 4/13 11PM</td>
<td></td>
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<tr>
<td>WEEK 10</td>
<td>4/13</td>
<td>5</td>
<td>Sections 8.2, 8.3</td>
<td>Reading Quiz Sections 8.2-8.3 Due 4/12 11PM</td>
<td>Sections 8.2, 8.3 Unit 5 Test Due 4/20 11PM</td>
<td>Final Project Preliminary Work</td>
</tr>
<tr>
<td>WEEK 11</td>
<td>4/20</td>
<td>6</td>
<td>Sections 2.4, 10.1, 10.2</td>
<td>Reading Quiz Sections 2.4, 10.1, 10.2 Due 4/19 11PM</td>
<td>Sections 2.4, 10.1, 10.2 Due 4/27 11PM</td>
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<tr>
<td>WEEK 12</td>
<td>4/27</td>
<td>6</td>
<td>Section 11.2</td>
<td>Reading Quiz Section 11.2 Due 4/26 11PM</td>
<td>Section 11.2, Unit 6 Test Due 5/4 11PM</td>
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<tr>
<td>WEEK 13</td>
<td>5/4</td>
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<td>Final Project Due 5/4</td>
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**NOTE:** THE SCHEDULE ABOVE MAY CHANGE DURING THE SEMESTER. ANY CHANGES WILL BE ANNOUNCED PRIOR TO ASSIGNMENT DUE DATES. **Please note:** St. Petersburg College will be closed January 20 (Martin Luther King Birthday), March 8-15 (Spring Break), April 10-12 (Spring Holiday).

*Due dates for projects will be announced when the projects are assigned*