MTH 1050 - Elementary Statistics
Spring Semester 2022

Instructor: Sally Groleau
Class Time: (02) TR 9:50 – 11:30 AM (Central Time) at https://meet.google.com/osp-huee-ksr
(03) TR 8:00 – 9:40 AM (Central Time) at https://meet.google.com/osp-huee-ksr
Office Hours: Tuesdays, 5:00 – 7:00 PM (Central Time) at https://meet.google.com/kfh-vyao-nou
E-mail: sgroleau@carthage.edu

Textbook: *Essentials of Statistics, Sixth Edition* by Mario F. Triola

Course Description: Methods of determining averages, variability and correlation, and of testing the significance of the statistics, prediction, and distribution-free statistics. A student may not receive credit for Elementary Statistics after receiving credit for any other statistics course.

Course Goals: The student will be able to:

1. Use technical writing and appropriate graphical and numeric methods to describe and interpret data sets.
2. Compute and interpret confidence intervals for means and proportions.
3. Conduct appropriate statistical tests, including written interpretation of test results.
4. Compute linear correlation coefficients and determine regression line equations.
5. Demonstrate sufficient knowledge of the course content.

Attendance: It is expected that students will login to our online classroom at the beginning of class every Tuesday and every Thursday. If an absence is absolutely necessary, the student is expected to e-mail the instructor.

Technology: Each student will need a scientific calculator. Students will also need access to a computer or device that will run Microsoft Excel.

Microsoft Excel: For statistical graphs and some computations, we will use Microsoft Excel. All students will need to download Excel to their personal computers before February 8. Note that Microsoft Office (which includes Excel) is available for free to all Carthage students. Please see this website for download instructions: https://www.carthage.edu/academics/library/computer-technology-services/student-software/ .

Learning Accessibility: Carthage College strives to make all learning experiences as accessible as possible. Any student who anticipates or experiences academic barriers due to a disability (including mental health, learning disorders and chronic medical conditions), should speak with the instructor immediately so that options can be discussed privately. To establish reasonable accommodations, students also need to register with Diane Schowalter in Learning Accessibility Services (dschowalter1@carthage.edu).

Academic Honesty Policy: Academic honesty is a necessary corollary to academic freedom; each concept presupposes the other. The goals and objectives of Carthage fall within the implicit context of academic honesty. Therefore, Carthage expects academic honesty from all of its members and maintains college-wide honesty guidelines and penalties that must be supported by the whole academic community. The guidelines and penalties are found on the following web site: https://www.carthage.edu/current-students/community-code/academic-concerns/ .

Questionnaire: A short questionnaire will be available on Schoology on the first day of the course. Students will discuss the information on this questionnaire during a short meeting with the instructor during our first class meeting. Completed questionnaires that are submitted to Schoology by the end of class on February 8 will be worth 3 points.

Lecture Videos/Notebook: Before nearly every class meeting, students will view a series of online lecture videos. Students are expected to take notes as they work through the material on the lecture videos. It is recommended that students write directly on the student note packets that are provided by the instructor, although taking notes in a separate notebook is also acceptable. As students take notes, they are not necessarily expected to write out all definitions, but they are expected to write out key formulas and work out all examples. Students will be required to upload a copy of their notes to Schoology before nearly every class meeting. In general, late notebook submissions will not be accepted. Notes will be graded as follows:

Notebook Rubric		
Excellent (2 points)	Acceptable (1 point)	Not Acceptable (0 points)
Notebook shows convincing evidence that student completely and correctly analyzed material from lecture videos.	Notebook shows some evidence that student correctly analyzed material from lecture videos.	Notebook does not show evidence that student correctly analyzed material from lecture videos; OR Notes were not submitted before due date/time.

Problem Sets: During nearly every class meeting, students will work on a set of problems, which will summarize and review the material on the most recent series of lecture videos. Most problem sets will consist of two parts, with Part I consisting of handwritten or Excel work (worth 2 points) and Part II consisting of a series of problems from the *MyLab Statistics* online homework system (worth 8 points). *Students must purchase an access code and register for MyLab Statistics before class time on Tuesday, February 8*. Students are permitted to use their notebooks and ask questions as they work through the problem sets. There will be 21 problem sets, each of which should be completed before the end of the class period, although exceptions will be considered in cases of extenuating circumstances.

Tests/Review Assignments: There will be two tests this semester using the *MyLab Statistics* online testing system. Students will complete a review assignment before each test. Tests will be completed individually during our regularly scheduled class meeting, as indicated on the attached schedule. Each review assignment will be worth 10 points and each test will be worth 100 points.

Midterm Project: The midterm project will be worth 100 points. Students will have the option of completing the written portion of the project individually or with a group of classmates (no more than three students per group). The project will be available on March 22 and will be due at 11:59 p.m. on Sunday, March 27. The project will consist of two parts:

1) 95% of the overall grade will be based on a written series of problems. Grade will be determined by the correctness of the work/answers and by adherence to the required format;
2) 5% of the overall grade will be based on the student's response to a short discussion question on Schoology.

Late projects will only be accepted in case of extreme emergency.

Final Project: The final project will be worth 100 points. Students will have the option of completing the written portion of the project individually or with a group of classmates (no more than three students per group). The project will be available after class on May 10 and will be due at the end of the scheduled final exam period (12:30 p.m. on Tuesday, May 17 for Section 02; 10:00 a.m. on Wednesday, May 18 for Section 03). The project will consist of two parts:

1) 95% of the overall grade will be based on a written series of problems. Grade will be determined by the correctness of the work/answers and by adherence to the required format;
2) 5% of the overall grade will be based on the student's response to a short discussion question on Schoology.

Late projects will not be accepted.

Components of Semester Grade:

Questionnaire	3 points
Notebook (21 @ 2 points each)	42 points
Problem Sets (21 @ 10 points each)	210 points
Review Assignments (2 @ 10 points each)	20 points
Tests (2 @ 100 pts each)	200 points
Midterm Project	100 points
Final Project	100 points
Total Available	675 points

Semester Grades:

A+/A/A-	607 - 675 points
B+/B/B-	540 - 606 points
C+/C/C-	472 – 539 points
D+/D/D-	405 – 471 points
F	0 – 404 points

MTH 1050 Tentative Calendar – Spring Semester 2022

Day	Date	Week	To Be Done Before Class	Work Due Before Class	To Be Done In Class	Work Due at End of Class
R	Feb. 3	1			Discuss Syllabus, Student Introductions	Questionnaire
T	Feb. 8	2	1-1, 1-2, 1-3 Videos	Notebook 1 (1-1, 1-2, 1-3 Videos)	1-1, 1-2, 1-3 Problems	Problem Set 1 (1-1, 1-2, 1-3)
R	Feb. 10	2	2-1, 2-2 Videos	Notebook 2 (2-1, 2-2 Videos)	2-1, 2-2 Problems	Problem Set 2 (2-1, 2-2)
T	Feb. 15	3	3-1,3-2 Videos	Notebook 3 (3-1, 3-2 Videos)	3-1,3-2 Problems	Problem Set 3 (3-1,3-2)
R	Feb. 17	3	3-2,3-3 Videos	Notebook 4 (3-2, 3-3 Videos)	3-2,3-3 Problems	Problem Set 4 (3-2,3-3)
T	Feb. 22	4	4-1,4-2 Videos	Notebook 5 (4-1, 4-2 Videos)	4-1,4-2 Problems	Problem Set 5 (4-1,4-2)
R	Feb. 24	4	4-3, 5-1 Videos	Notebook 6 (4-3, 5-1 Videos)	4-3. 5-1 Problems	Problem Set 6 (4-3, 5-1)
T	Mar. 1	5	5-1, 5-2 Videos	Notebook 7 (5-1, 5-2 Videos)	5-1, 5-2 Problems	Problem Set 7 (5-1, 5-2)
R	Mar. 3	5	6-1 Videos	Notebook 8 (6-1 Videos)	6-1 Problems	Problem Set 8 (6-1)
T	Mar. 8	6	6-2 Videos	Notebook 9 (6-2 Videos)	6-2 Problems	Problem Set 9 (6-2)
R	Mar. 10	6	6-3, 6-4 Videos	Notebook 10 (6-3, 6-4 Videos)	6-3, 6-4 Problems	Problem Set 10 (6-3, 6-4)
T	Mar. 15	NO CLASS DUE TO SPRING BREAK				
R	Mar. 17					

Day	Date	Week	To Be Done Before Class	Work Due Before Class	To Be Done In Class	Work Due at End of Class
T	Mar. 22	7	Test 1 Review Problems	Test 1 Review Problems	Test 1	Test 1
R	Mar. 24	7	Work on Midterm Project		Work on Midterm Project	Midterm Project due at 11:59 p.m. on Sunday, March 27
T	Mar. 29	8	7-1 Videos	Notebook 11 (7-1 Videos)	7-1 Problems	Problem Set 11 (7-1)
R	Mar. 31	8	7-2 Videos	Notebook 12 (7-2 Videos)	7-2 Problems	Problem Set 12 (7-2)
T	Apr. 5	9	8-1 Videos	Notebook 13 (8-1 Videos)	8-1 Problems	Problem Set 13 (8-1)
R	Apr. 7	9	No Class Due to Assessment Day			
T	Apr. 12	10	8-2 Videos	Notebook 14 (8-2 Videos)	8-2 Problems	Problem Set 14 (8-2)
R	Apr. 14	10	8-3 Videos	Notebook 15 (8-3 Videos)	8-3 Problems	Problem Set 15 (8-3)
T	Apr. 19	11	9-1 Videos	Notebook 16 (9-1 Videos)	9-1 Problems	Problem Set 16 (9-1)
R	Apr. 21	11	9-2 Videos	Notebook 17 (9-2 Videos)	9-2 Problems	Problem Set 17 (9-2)
T	Apr. 26	12	10-1 Videos	Notebook 18 (10-1 Videos)	10-1 Problems	Problem Set 18 (10-1)
R	Apr. 28	12	10-2 Videos	Notebook 19 (10-2 Videos)	10-2 Problems	Problem Set 19 (10-2)
T	May 3	13	11-1, 11-2 Videos	Notebook 20 (11-1, 11-2 Videos)	11-1,11-2 Problems	Problem Set 20 (11-1,11-2)
R	May 5	13	11-3 Videos	Notebook 21 (11-3 Videos)	11-3 Problems	Problem Set 21 (11-3)
T	May 10	14	Test 2 Review Problems	Test 2 Review Problems	Test 2	Test 2
R	May 12	14	Work on Final Project		Work on Final Project	
T	May 17	15		Section 02: Final Project Due at 12:30 p.m.		
W	May 18			Section 03: Final Project Due at 10:00 a.m.		