



MAT 13: Elementary Statistics

COURSE SYLLABUS

Instructor:	Pedro Ramirez	Term:	Spring 2018
E-Mail:	pramirez@hartnell.edu	Class Meeting Dates:	TuTh 1/16/2018-5/26/2018
Office Hours:	Set up Appointment	Class Meeting Hours:	7:30-9:45 PM
		Class Location:	Science Room S129
		Units:	5

Welcome!

Catalog Description

A study of the measures of central tendency, dispersion and position, graphic presentation, sampling, frequency distributions, discrete and continuous probability distributions, expected values, sampling distribution, Central Limit Theorem, sample variability, statistical inferences, confidence intervals, hypothesis testing, t-tests, Chi-Square tests, analysis of variance (ANOVA), linear correlation and regression analysis, decision making using predictive models, and non-parametric tests. This course is primarily for students in business, social sciences, biological sciences, education and humanities. Use of technology, including graphing calculators or computers will be extensively integrated as a tool in the description and analysis of data. [CSU; UC; CSU-GE, AREA B4; IGETC, AREA 2] [C-ID MATH 110] Advisory: Access to a graphic calculator similar to TI-84 made by Texas Instrument. Other: DE/Hybrid

Student Learning Outcomes: (Things you should be able to do by the end of the course)

1. For a given data set students should be able to find mean, mode, median, range, and standard deviation
2. Students should be able to create sample space for given events and find probabilities.
3. Students should know about normal distribution and its applications.
4. Students should be able to do hypothesis testing.

Course Objective: Introduction to the basic concepts of statistics, such as sampling, data collection and analysis, correlation and regression, probability distributions, hypothesis testing and non-parametric statistics.

CALCULATOR: : You will need a TI-84 Plus calculator. You can find these online for about \$50. This calculator has almost all of the statistical functions we need for this class. When I write the exams, I assume that you will be using a TI-84 instead of memorizing and using a bunch of formulas. Please get a TI-84 ASAP.

Book: Elementary Statistics 12th Edition by Mario F. Triola

Course Policies

The following paragraphs contain important information about course policies, grading, and student conduct so read it carefully!

Grades

Basis for Final Grade: A percentage grade will be determined based upon the following categories

Assessment	Percent of Final Grade
Homework	20%
Quizzes	10%
Chapter Review	20%
Midterms	30%
Final	20%
TOTAL:	100%

Grading Scale: Based upon the total number of points you have earned at the end of the semester, you will earn the following letter grades:

Grading Scale (%)		Interpretation
90-100	A	Excellent, exceeds average understanding as evidence in course work and goes well beyond the basics
80-89	B	Far above average, meets or exceeds average understanding as evidenced in course work and fully understands the basics; can deal with some concepts beyond the basic level
70-79	C	Average; meets minimum expectations to satisfy course requirements
60-69	D	Below average; meets some minimum expectations and satisfies several but not all course requirements
0-59	F	Fails to meet minimum expectations in understanding of course concepts as evidenced by performance on exams and submission of graded elements

Graded tests and assignments in this course will be returned to you individually and then returned to me. You can access your scores at any time using the gradebook feature in the *etudes* portal. If you need help accessing your grades, please see me.

Homework: Will be assigned in class and will be turned in when dated. Will be problems from book

Quiz: Quizzes will be given on a weekly basis on Thursday.

Chapter Review: Problems on canvas that must be turned in class as when indicated on the syllabus.

Test: Although problems won't be exact copies from quizzes or homework, expect to see many similarities. There will be 4 Exam

Final: A comprehensive final is required for all sections. Final exam will include any combination of problem types such as problem solving, multiple choice, and true/false.

Group Work Policy: You are encouraged to do homework and chapter review with your classmates. They may be able to explain some topics better than the instructors.

Late Work Policy: No late work accepted. If you miss a quiz and or test, you must provide proof of an excused absence (e.g. medical note) to be able to take it.

Grades of "Incomplete": Incomplete grades are given only in situations where unexpected emergencies prevent a student from completing the course. Incomplete work must be finished by the end of the next semester or the "I" will automatically be recorded as the grade you earned at the end of the course. (See Hartnell College Catalog p, 26)

Course Policies: Student Expectations

Professionalism Policy: Cell phones, iPods, etc. **must be silenced** during all classroom lectures so as not to disrupt the learning environment. Please arrive on time for all class meetings. Students who habitually disturb the class by talking, arriving late, leaving early or other disturbances will be warned and may be dropped from the class or suffer a reduction in their final class grade. (See Hartnell policies for Student Conduct and Grievances on pages 31 and 32 of the college catalog; www.hartnell.edu/academics/catalogs). *These actions are taken to protect the learning environment for all students.*

Academic Dishonesty Policy: Academic dishonesty in any form will not be tolerated. If you are uncertain as to what constitutes academic dishonesty, please consult page 31 of the 2013-14 Hartnell catalog for further details (www.hartnell.edu/academics/catalogs). Violations of these rules may result in a record of the infraction being placed in your student file and receiving a zero on the work in question. Confirmation of other incidents can also result in expulsion from the College. *These actions are taken to protect the learning environment for all students.*

Attendance: If you miss more than four class sessions, Hartnell policy requires that you be dropped from the class, regardless of your performance. Please discuss extenuating circumstances with me. If you need to drop this class, please fill out the official paperwork before the final drop deadline. (See Hartnell catalog, p. 35)

Turnitin.com: In this course we will utilize turnitin.com, an automated system which instructors can use to quickly and easily compare each student's assignment with billions of web sites, as well as an enormous database of student papers that grows with each submission. Accordingly, you will be expected to submit all assignments in both hard copy and electronic format. After the assignment is processed, I receive a report from turnitin.com that states if and how another author's work was used in the assignment. For a more detailed look at this process visit <http://www.turnitin.com> .

Student Support

Additional student support may be available to you from affordable textbooks to financial aid and scholarships. Please visit the Hartnell website (www.hartnell.edu/students) for programs and services that may be of value to you. In addition, should personal issues interfere with your academic success, please consider consulting Crisis Counseling Services (www.hartnell.edu/crisis) or phone 770-7019 for personal/confidential counseling services. Crisis Counseling sessions are free of charge to Hartnell students.

If you need support of any kind, I hope you will visit with me during office hours or at other times that are mutually convenient.

DSPS Statement

The Department of Supportive Programs and Services (DSPS) coordinates academic accommodations for students with documented disabilities at Hartnell College. If you have, or suspect you may have, a disability that impacts your education, please contact the DSPS Office to determine your eligibility for accommodations. DSPS is located in the Student Services Building B, Room 107 (831) 755-6760. I encourage you to meet with Amy Lehman, Director of DSPS, to discuss your specific accommodations and to have test proctoring forms signed 5 days in advance.

Celebration of Diversity

The members of a classroom represent a rich variety of backgrounds and perspectives. I am committed to working with you to provide an atmosphere for learning that respects diversity. I hope we can all work together to build this learning community and ask all class members to:

- share their unique experiences, values and beliefs

- be open to the views of others
- value each other's opinions and communicate in a respectful manner
- keep discussions that occur within class that are of a personal nature confidential
- appreciate the opportunity that we have to learn from each other in this community
- consider ways that we may create an inclusive learning environment within this course and across the Hartnell College community

Campus Safety:

EMERGENCY NOTIFICATION: In the event of a life threatening emergency call 911.

- To report a non-life threatening incident, safety hazard, or a suspicious activity please contact campus security at 755-6888
- To obtain campus status information, call the campus safety and facilities emergency status bulletin telephone number: 831-796-6222. From a campus line, simply dial 6222

Please visit Hartnell's emergency reporting link here: <http://www.hartnell.edu/reporting-emergencies>

Students: If you receive an emergency notification, please tell your instructor immediately.

During a campus emergency, you will generally be told to do one of two options, SHELTER IN PLACE or EVACUATE. When either of these are given, vehicle traffic coming onto campus will likely be turned away. Students are required to obey the directions of staff in a timely fashion.

EVACUATION: Please note the exit(s) in the room. In the event of an alarm or safety threat, uniformed Hartnell personnel equipped with two-way radios--including security, and maintenance staff--have up-to-date information; they also have the authority to order either shelter-in-place or immediate building evacuation. For evacuation, immediately heed their directions by proceeding calmly and quickly to an exterior assembly area as indicated by trained staff. Please stay back at least 200 feet from any building until the "all clear" command is issued.

SHELTER IN PLACE: In the event of a safety threat, instructors and staff will lock classroom doors and direct occupants to stay clear of windows. Occupants are requested to remain quiet. During this time, DO NOT access any exits unless directed by first responders or staff. A shelter in place order is also used for severe environmental threats like a thunderstorm.

Run, Hide, Fight (Links to an external site.) Active Shooter Response

In the event of an Active Shooter Event, there are three things you need to know in order to survive: Run, Hide, Fight. Please review the video in the link.

If you see suspicious behavior on campus, please tell someone. [Our Campus Safety \(Links to an external site.\)](#) officers are trained to investigate suspicious incidents.

EMERGENCY PREPAREDNESS: The first 72 hours of a disaster are often the most difficult, but this period can be less stressful if everyone has extra supplies on hand. The college has a limited amount of emergency supplies, so students and staff should have on campus their own portable emergency kit including snacks, water, and prescription medication; this is especially important for those who may need to shelter on campus. For more information go to <http://72hours.org/>

Students: If you have knowledge of an emergency on campus, share it immediately. If you see something suspicious or potentially hazardous, let someone know.