Math 115 Course Syllabus
Spring 2013 Semester

Instructor: Toni A. Cravens
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Office Hours: Tuesday and Thursday 9:30-10:30am and by appointment
Office: Math Office in Building 1, next to the Science Lab, West Hawaii Campus
Note: By registering for this section of Math 115, you agree to the terms and policies set forth in this syllabus.

Prerequisite
A "C" or better in Math 25 or 25X or Math 26 or placement in Math 100; and Eng 21 of Eng 22 or ESL 15 or placement in Eng 100 or placement in Eng 102.

Text: Fundamentals of Statistics by Michael Sullivan, III (3rd Edition)

Course Description
Math 115 presents a basic introduction to topics in statistics including: descriptive statistics, elementary probability theory, normal and binomial distributions, and methods of statistical inference. Emphasis is on interpretation and application.

Course Learning Objectives:
- Explain in writing and by example the difference between inferential and descriptive statistics.
- Derive and interpret various descriptive statistics, such as mean, median, mode, range, variance, and standard deviation.
- Interpret data presented graphically
- Organize and present data using a frequency distribution and graphs
- Explain in writing and by examples the meaning of probability
- Solve probability problems involving the concepts of independent events, mutually exclusive events and (if time permits) conditional events.
- Calculate probabilities involving binomial and normal distributed random variables.
- Test hypotheses involving binomial and normal distributed random variables.
- Explain in writing the meaning of statistical significance.
- Find and interpret in writing confidence intervals.
- Discern common abuses of statistics
- Apply critical thinking and various problem solving strategies in meeting the demands of this course

Equal Access to Education

HawCC is committed to providing equal access to the campus classrooms and resources, course information and activities to students who have disabilities. If you have a documented disability and/or related access needs, please contact Willow Aureala, Counselor in West Hawai'i

Hawai'i Community College has counselors available if you are having issues which have a negative impact on your ability to successfully complete this course and other courses you are taking. Call 322-4856 if you need to see a counselor.

Attendance

Attendance may be taken each day. Due to the nature of this course, it is extremely important that you keep missed instructional time to a minimum. New material builds upon previous material.   Students that miss instructional time find themselves lost and frustrated. Attending every class will better prepare you for homework and tests. Also, all students are expected to be familiar with and abide by the HawCC's Student Conduct Code. Please follow these rules and regulations in this class.

Grades

Grades will be based on homework, three exams, and a comprehensive final. Letter grades will be assigned based on the scale below:

89.5 – 100%	A
79.5 – 89.4%	B
69.5 – 79.4%	C
59.5 – 69.4%	D
59.4% & Below	F

NOTE: This scale is firm. If at the end of the semester your percent is 89.4, you will have earned a B. NO EXCEPTIONS.

<u>Math 115 Student Learning Outcomes</u>

Upon successful completion of Math 115, the student should be able to:
1. **Read and interpret statistical information presented in graphical formats.**
2. **Apply fundamental concepts and measures to quantitative data.**
3. **Demonstrate awareness of the common limitations and misuses of statistics.**
4. **Understand the diverse scope of statistical applications.**

<u>**Homework**</u> 40%
Homework will be assigned daily and collected every other week. You will be graded on the completeness of your assignments and having the correct solutions to key problems. All work must be shown on your homework to receive any credit.
Homework will be collected at the **beginning** of class; **no late homework will be accepted**.

<u>**Midterms**</u> 40% (20% Each), <u>**Final**</u> 20%
There will be two midterms throughout the semester and a final exam. The midterms will tentatively be scheduled for the 5th and 10th week of the semester. The final in this course will be on <u>**Tuesday, May 7th 11:50am-1:50pm**</u>. **NO MAKE UP EXAMS WILL BE GIVEN.**

<u>**Study Resources:**</u>
  ⸗ Your instructor and classmates!
  ⸗ Tutoring Center (Located at the Library)

<u>**Additional Remarks**</u>
- Cell Phones - Please turn your cell phone <u>off</u> or to <u>silent mode</u> during class ime. Vibrate mode still disrupts the class and thus is unacceptable. Please be considerate of others who are trying to learn. PLEASE DO NOT TEXT MESSAGE DURING CLASS.
- As a reminder, this is a three (3)-unit class. Generally, for a three-unit math class, the average ("C") student will spend 6-10 hours per week studying and doing homework.
- I expect you to attend each class on time and prepared to learn. I encourage you to get to know each other and create study groups.