

# Introduction to Statistics and Probability

Math 121, Spring 2013

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**Instructor:** Dr. Erica Bernstein **Office:** CH-4D **Office Hours:** Tuesday 2-4, (or by appt.)

**Phone # / Email:** 808-933-3172 ebernste@hawaii.edu

**Class time:** TR 11:00-12:15 in UCB 102, MW 3:00-4:15 in UCB 105, MW 4:30-5:45 in UCB 105,

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**Text:** Agresti and Franklin, *Statistics, The Art and Science of Learning From Data*, 3rd ed. You have a choice of buying the textbook package which includes the text, the required PearsonMyLabAndMastering online access kit, necessary for the homework and a copy of the MINITAB software CD used for labs, or you can just purchase the PearsonMyLabAndMastering online access kit. If you purchase the latter, you will have to complete your MINITAB Labs on campus. The text is available online through the access kit. **The online course ID is bernstein20237.**

**Student learning Outcomes:** Following this class the successful student will be able to:

- Summarize data graphically
- Compute and interpret measures of center and spread.
- Identify and interpret association between variables.
- Identify the role of experimental design in decision-making.
- Quantify uncertainty using the language of probability.
- Use models to interpret results and make decisions.
- Compute sampling distributions for sample proportions and sample means. Identify the role of the Central Limit Theorem.
- Create and interpret confidence intervals.

**Grading:** Your course grade will be computed as follows: 2 Exams and Final 60%, Homework and Quizzes 20%, Labs 15%, Attendance 5%

Course Grade	Percentage	Course Grade	Percentage	Course Grade	Percentage
A	92-100	B	82-85	C	70-75
A-	89-91	B-	79-81	D	65-69
B+	86-88	C+	76-78	F	< 65

**Attendance:** A detailed course calendar can be found on the CourseCompass class website. Any changes to this calendar, will be announced in lecture. You may have 3 unexcused absences without penalty.

**Homework:** The PearsonMyLabAndMastering student access kit gives you access to an online learning environment where you will find and do your homework assignments and all course materials. You will be able to do homework from your own PC, if you have access to a high speed internet connection. If you don't have a PC, or fast internet connection, you can do your homework around campus.

**Labs:** We will be using MINITAB to do the labs. There will be ample time to complete the MINITAB portion of the Labs in class. The day we do labs is listed on the course calendar. A hard copy (e-mail submission of labs is not permitted) of the lab worksheet is to be submitted at the beginning of the following class. Labs can also be submitted before the due date at the Natural Sciences Office, LS2. You will **not** receive full credit for late labs. You can also work on labs using ACSLABS computers on campus.

## Sources of Help:

1. *Your Instructor* Let me know any problem or difficulty you encounter with the material at any time. Tell me in class or during office hours.
2. *Calculator* It is recommended that you purchase a scientific calculator in order to do required computations. The TI 30X IIB is an inexpensive one available at the bookstore.
3. *Tutors* The math department Math Lab in CH 5 provides free tutoring service to assist students. Kilohana: The Academic Success Center provides academic support opportunities for all UH Hilo students that foster their development into independent, self-motivated learners. Kilohana is located on the lower level of the Mookini Library and on the web at <http://hilo.hawaii.edu/kilohana/>
4. *Disability Services* Any students with a documented disability who would like to request accommodations should contact the University Disability Office - Campus Center Rm 311, 933-0816(V), 933-3334(TTY) - as early as possible.