Spring 2016--Elementary Statistics and Probability

All 5 days :M-Tu-W-Th-F 12:30 pm – 1.20 pm

Course	Math 10.12
Instructor	Mrs. Nirmala Janak
e-mail	janaknirmala@fhda.edu
Class-Room	G-7
Office Hours(For Tutoring)	Tuesday, Thursday 1.30 pm- 2.20 pm
Room	E-37

This is a demanding, but rewarding class. If you cannot commit to a minimum of 15 hours per week of study and group work, then you should take this class in a quarter when you have more time to learn. This is also a collaborative class. You will be expected to work with your classmates both inside and outside of class.

Prerequisite: Passing grade (C or better) in Intermediate Algebra or placement exam; Advisory: English Writing 100 and Reading 100 (or Language Arts 100), or English as a Second Language equivalent courses.

Course Text : The textbook for this course is the Introductory Statistics from OpenStax and is available for FREEat: http://openstaxcollege.org/textbooks/introductory-statistics You can download the file. Y*ou MUST bring either downloaded printed copy(for that topic) or the text book to class every day.*

Related Materials: TI-83 PLUS or TI-84 graphing calculator preferred. Small stapler; small pencil sharpener; small ruler. You can borrow the TI-83 from the Library if it is available when you need it.

Topics to Skip Ch 3: Venn diagrams : Ch.4: Geometric, Hypergeometric, Poisson Distributions Ch5: Conditional probability for Uniform distribution Ch.7: Central Limit Theorem for Sums Ch 11: Test of variance

Student Learning Outcomes: (SLO's)

1) Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures

of characteristics of data.

2) Identify, evaluate, interpret and describe distributions data through the study of sampling and distributions and probability theory.

3) collect data, interpret, compose and defend conjectures, and communicate the results of random data using statistical analyses such as interval and point estimate, hypothesis tests, and regression analysis.

Student's Responsibilities:

* You need to bring 1) Text book/printed(DOWNLOADED) material from the on-line free book ; 2) GRAPHING Calculator (TI-83 PLUS or TI-84): 3) Writing material (pen/pencil/loose-leaf papers) every day to the class. If I see any day that you did not bring any of them, points will be deducted from your class activities (CW/HW/Lab) Points.

ATTENDANCE : Attendance is strongly emphasized.

* You are expected to attend all classes. Tardy counts as half an absence. You are considered tardy if you come to the class after teaching is started.. Also leaving the class early will count as half an absence. If you accumulate five absences you will be dropped from the class. Please inform me by email if you are going to be absent and the reason for it. YOU MUST BE IN CLASS EVERY DAY FOR THE FIRST TWO WEEKS OF CLASS OR YOU MAY BE DROPPED. Each absence(up to three) can be cleared by taking 1 hour/ for each absence (total : 3hrs) of tutoring, if you intimate me the reason prior to the absence by e-mail.. The rest will be counted.

* When you are absent, it is your responsibility to get the notes/HW problems from other students who attend this same class. Your classmates are your great resource.

* For an absence if you bring a medical or court excuse (professional letterhead is required) ON THE DAY YOU ATTEND THE CLASS , that will be recorded and will be considered and the absence will not be counted against you. **If no excused document is produced absences will be counted.**

* QUIZZES OR TESTS are **NOT** made up, even if it is an excused absence.

* Homework problems are given at the end of each class. YOU NEED TO TURN IN HW PROBLEMS EVERY FRIDAY. It is your responsibility to do them without fail, and you are encouraged to ask questions from that HW, at the beginning of next class, if you did not understand any problems from your HW OR you can always meet me one-on-one, during my office hours, for help.

GRADING: Grading is done in the following categories.

1. **CW Problems Check: (2 points for each CW; (20 points/ Every Friday) (IF IT IS VERY NEAT WORK 5 points will be added. TOTAL 25)** Each day notes is given for each topic and class work problems are assigned to finish in the class period. *At the end of that particular chapter(or chapters)* you need to show that to me and get it signed by me. Each CW work (signed by me) is worth 2 points. If you are absent any day you will be given chance (for an excused absence) to show the missed CW in the next class for (not later than that) those missed 2 points.

2. **HOME WORK Check: (2 points for each HW; (20 points/ Every Friday) (IF IT IS VERY NEAT WORK 5 points will be added. TOTAL 25)**   HW problems are given for each topic when a topic is finished. After we finish that *particular chapter* you need to show HW to me and get it signed by me either on Monday or Friday depending upon when the chapter is finished. Each HW work (signed by me) is worth 2 points. If you are absent any day you will be given chance (for an excused absence) to show the missed HW in the next class for (not later than that) those missed 2 points.

3. **Group Activity (2-Labs): (25 points for each person in the group) Total: 50 points):** Students are divided into groups for this activity. I will explain more about this in the class prior to the group activities. We will have minimum of two labs in the quarter. If time permitted, one more lab would be given before the final exams.

4. **QUIZZES (5): (20 points each ; 5 quizzes (5. 20 = 100 points)** Quizzes are given on either Fridays/Mondays at the beginning of the class. 15- 20 min. If you are late to the class, you lose the time. No extra time is given. **A total of 5 quizzes** are given .

5. **MID-TERM TESTS (3): (3 TIMES 100 = 300 POINTS):** Three Mid term Tests are given in this quarter. See the tentative schedule below. A consideration is given when you are absent for ONE MID - TERM TEST under emergency situations (proof is needed). In such cases, The final exam score will REPLACE for that one missed test. ONLY ONE TIME. You need to be present for the rest of the tests. If you are NOT absent for any test, then your final exam score will replace ONE(ONLY ONE) failing score of one test. The remaining two test scores will be counted as they are.

6. **FINAL EXAM: (150 points). You *must* take the final exam to pass the course. A two-hour comprehensive exam will be given. *If you miss the final exam, you will receive an F for the course,* even if you are passing before final exam. Students may bring 1 page of formulas to the final. Finals must**

be taken at scheduled time during finals week. Final Exam is on June 22nd (Wednesday - 11.30am - 1.30 pm (2 hours)

Category	Description	Points	%
1. Class work (notes and solved problems) at **the end of each chapter.**	The CW needs to be shown at the end of each chapter. The **signed CW** is wort 2 points. Max of 10 CW. (10. 2= 20)	20(+5) = 25	3.85%
2. Home work Problems (Not just answers. Show work)	HW is checked on **every Monday/Friday. Need to submit as you enter the class.** Max of 10 HW. The signed HW is worth 2points (10.2=20)	20(+5) =25	3.85%
3. LAB/ Group Activity	Two labs. Each is 25 points (25.2=50)	50	7.7%
4. Quizzes (5 quizzes) 5. **15- 20 min**	Monday or Friday: 12.30-12.45pm (5 . 20 = 100)	100	15.4%
5. .Mid-Term - 1	**April 25th (Monday)**	100	15.4%
6. .Mid-Term - 2	**May 16th (Monday)**	100	15.4%
7. . Mid Term - 3	**June 6th (Monday)**	100	15.4%
8. Final exams	**Wednesday (June 22nd) - 2 hours ; 11.30 am to 1.30 pm.**	150	23%
Total points	--	**650**	**100%**

Scores/Letter Grade/Percentages	Scores/Letter Grade/Percentages
[615 - 650] = A+ [95% - 100%]	[582 - 614] = A [90% - 95%)
[550 - 581] = B+ [85% - 90%)	[517 - 549] = B [80% - 85%)
[486 - 516] = C+ [75% - 80%)	[452 - 485]= C [70% - 75%)
[420 - 451] = D+ [65% - 70 %)	[387 - 419] = D [60% - 65%)

Tentative Schedule:

	Monday	Tuesday	Wednesday	Thursday	Friday
APR	**4th**: No teaching (Intro to class)	**5th**: Lesson: Ch 1	**6th**: Ch 1	**7th:** Ch 1	**8th:** Ch 1 Finish Begin Ch 2 (HW: due)
APR	**11th**: **Q-1** Lesson : Ch.2 (Lab# 1: Given)	**12th**: Ch 2	**13th**: Ch 2	**14th:** Ch 2	**15th:**Ch 2 finish (Lab#1 : Due) (HW: due)
APR	**18th**: **Q-2** Lesson : Ch.3 Lab# 2: Given)	**19th**: Ch 3	**20th**: Ch 3	**21st:** Ch 3	**22nd:** Review for the Test-1 (HW: due)
APR	**25th: Test :1 (Ch: 1,2 &3)**	**26th**: Lesson: Ch 4	**27th**: Ch 4	**28th:** Ch 4	**29th:**Ch 4 Finish (Lab# 2: Due) (HW: due)
MAY	**2nd**: Lesson: Ch 5	**3rd** Ch 5	**4th**: Ch 5	**5th**: Ch 5 (Finish)	**6th** Lesson Ch: 6 (HW: due)
MAY	**9th: Q-3** Lesson: Ch: 6	**10th:** Ch 6	**11th:** Ch 7	**12th:** Ch 7	**13th** : **Review for the Test-2** (HW: due)
MAY	**16th: Test : 2 (Ch: 4,5,6 &7)**	**17th:** Lesson: Ch 8	**18th:** Ch 8	**19th:** Ch 8	**20th:** Ch 8 finish HW: due)
MAY	**23rd: lesson:** Ch 9	**24th:** Ch 9	**25th:** Ch 9	**26th:** Ch 9 **Q-4** :T.H.Q. (ch 9) Given	**27th: T.H.Q. (ch 9) due)** (HW: due) Lesson: ch 10
MAY/ JUNE	**30th: Holiday (Memorial day)**	**31st:** Ch 10	**1st:** Ch 10 (finish)	**2nd :** **Lesson:** Ch 11	**3rd: Review for the Test-3** (HW: due)
JUNE	**6th**: **Test-3 (Ch: 8,9 & 10)**	**7th**: Ch 11	**8th**: Ch 11	**9th**: Ch 11	**10th**: Ch 12 (HW: due)
JUNE	**13th: Q-5** Lesson: Ch: 12	**14th**: Ch 13	**15th**: Ch 13	**16th:** Review for Finals	**17th:** Review for Finals (HW: due)

My Scores

Note: By filling up your points in these categories (given below for your convenience) on a regular basis you get an idea what your scores are at any given time.

CW Points: 2 point each Friday; **Circle** the day when you get that day's point: 20 points (+ 5 points for neat work)

FRI	FRI	FRI	FRI	FRI	FRI	FRI	FRI	FRI	FRI	Total
Apr 8th	Apr 15th	Apr 22nd	Apr 29th	**May 6th**	**May 13th**	**May 20th**	**May 27th**	Jun 3rd	Jun 10th	/20 (+5)

HW Points: 2 points each Friday; **Circle** the day when you get that day's points: 20 points (+ 5 points for neat work)

FRI	FRI	FRI	FRI	FRI	FRI	FRI	FRI	FRI	FRI	Total
Apr 8th	Apr 15th	Apr 22nd	Apr 29th	**May 6th**	**May 13th**	**May 20th**	**May 27th**	Jun 3rd	Jun 10th	/20 (+5)

LABS : **Group Activity: 25 points: Check the day that you did the group activity and put the date below**

Lab-1	Lab-2	Total Points
/25	/25	/50

Quizzes: 5 quizzes; 20 points each: Put your score under the quiz;

Quiz- 1	Quiz- 2	Quiz- 3	Quiz- 4	Quiz - 5	Total
APR: 11th	APR: 18th	MAY 9th	MAY 27th	Jun 13th	Out of 100 Points
/ 20	/ 20	/ 20	/ 20	/ 20	/100

Midterm Tests: 3 Midterm tests each is 100 points:

APR- 25th-Test - 1	MAY 16 - Test - 2	JUN 6 - Test- 3	Total - 300 Points
/ 100	/ 100	/ 100	/300

****Please print this syllabus and bring it every day to the class.

ALL THESE points ARE OUT OF **450 POINTS, before going into final exams, which is 150 points.**

STUDY WELL AND DO WELL!! THE SUCCESS DEPENDS ON YOUR HARD WORK !! ALL THE BEST!!

NOTE: ****Cell phones** should be switched off before entering the class and YOU SHOULD NOT use a cell phone AS a CALCULATOR. If I see that your cell phone is on, you may be asked to leave the class. And that would be counted as half absent. Either from CW or HW- from the earned points, points are subtracted

Important Dates: (Also check College web site for more info)

Saturday, April 16th, 2016 :: Last day to <u>add</u> quarter-length classes. *Add date is enforced*.

Sunday, April 17th, 2016:: Last day to <u>drop</u> a class with no record of grade. *Drop date is enforced.*

Friday, May 26th, 2016 :: Last day to <u>drop</u> with a "W." *Withdraw date is enforced.*

* **Getting Help:** In addition to coming to office hours, you can get help at the *Math, Science & Technology Resource Center (MSTRC)* in S43. They are open M-Th 8:30am – 6:30pm and F 8:30am – 12:30pm.
* **Cheating Policy:** Any student caught cheating on a quiz or an exam will receive 0 points on that quiz or exam. The same holds for any student who allows another student to cheat.

* **Testing and Other Accommodations:** If you have a learning or other disability that requires accommodation, please contact either the Educational Diagnostic Center (LCW-110, 408-864-8839) or Disability Student Services (SCS-141, 408-864-8753) to arrange for in-class and/or testing accommodations

* **College Policies:** Students *can not* take the same class more than three times for a grade, *including W*. Late adds and late drops *will not* be processed.