Introduction to Statistics

MATH 1040©, CRN 22479, Fall 2017

http://faculty.weber.edu/aghoreishi/Math1040_F17/Math1040_F17.asp/

Prerequisite: MATH 1010 or Math ACT score 23 or higher or placement test.

Text: **Required:** Statistics, Informed Decisions Using Data, by M. Sullivan 4th Ed, ISBN 0-321-75727-0.
Optional: Student Solutions Manual by Craig C. Johnson, ISBN 0-321-75747-5.
A copy of this book is available in Mathematics Students' Room: TY 230.

Class Meetings: MWF 8:30-9:20, TY 426.

Instructor Information: Dr. Afshin Ghoreishi, http://faculty.weber.edu/aghoreishi/. Office: TY 450M. Office Hours: MTWF 9:30-10:20 and MW 11:30-12:20. At other times, you can see me whenever I am in my office and not busy. You can also see me by making an appointment.

Procedures: I will try to answer a few questions at the beginning of each class, but this time will be limited. Be prepared for each class by working on prior homework and reading the book ahead of time. You are encouraged and expected to read the book on your own. Utilize office hours and other sources of tutoring.

We will have weekly homework quizzes, three "1-hour" exams and a comprehensive "2-hour" final exam. You will not turn in homework problems. The purpose of this course is to learn/understand the concepts. The emphasis is not number crunching. Therefore, smaller numbers and small data sets will be used on exams and you don't need spend your time to learn how to use a particular graphing calculator or program. For this reason, you may not use a graphing or programmable calculator. This will also ensure your calculator type will not have an effect on your course grade. **You will need a scientific** (regular, statistical, D. A. L., etc.) **calculator.**

Do not enter the class late & do not come to class if you have to leave early. Turn off pagers, cell phones and other such disruptive devices. Do not text message. Failure to follow these basic courtesies may result in a failing grade.

Attendance: Almost all students will do better by actively participating in class (attending class, taking notes, asking questions, etc.) and some can benefit from a little encouragement to do so. The following policy is for those of you who want to take advantage of it. You can earn extra credit for regular **on-time** attendance and positive contribution as follows: 10 points for missing at most 1 class and 5 points for missing 2 or 3 classes. **Excessive absence** (5 or more classes) **will result in a grade of UW.** You can opt out of this policy by simply telling me. I can also help place you in another section that is more to your liking.

Homework Quizzes: A homework problem list is included. To be successful in this class you might need to do more problems than the ones listed. All quiz problems will be from the homework problem list. Each quiz will be about two pages and will contain 3-4 problems. All quizzes, except the ones right before an exam, will be given in the Tracy Hall Testing Center during the dates listed below. You will be given necessary tables, but no formulas. You will need a scientific calculator. We will meet for our regular lectures during Homework Quiz days. **No** make-up quiz will be given.

The Tracy Hall Testing Center is located in the Tracy Hall, Rm. 101C, and will be open M-R 8:30 am - 8:00 pm, F 8:30 am - 4:30 pm, Sat 10:00 am - 4:30 pm. You must complete an exam by one hour after their closing time. You must also take along a picture I.D.

Homework Quiz	Dates	Homework Quiz	Dates
I: Chap 1	Tue, Sep 5 - Wed, Sep 6 (September 4 is a holiday.)	VIII: Chap 6	Mon, Oct 23 - Wed, Oct 25
II: Chap 2	Mon, Sep 11 - Wed, Sep 13	IX: Chap 7	Take Home: Hand out on Fri, Oct 27 & collect on Mon, Oct 30.
III: Sec 3.1-3.2	Mon, Sep 18 - Wed, Sep 20	X: Chap 8	Mon, Nov 6 - Wed, Nov 8
IV: Sec 3.4-3.5	Mon, Sep 25 - Wed, Sep 27	XI: Chap 9	Mon, Nov 13 - Wed, Nov 15
V: Chap 4	Take Home: Hand out on Fri, Sep 29 & collect on Mon, Oct 2.	XII: Chap 10	Take Home: Hand out on Wed, Nov 22 & collect on Mon, Nov 27.
VI: Sec 5.1-5.2	Mon, Oct 9 - Wed, Oct 11	XIII: Chap 11	Take Home: Hand out on Mon, Dec 4 & collect on Wed, Dec 6.
VII: Sec 5.3, 5.5 & 5.6	Mon, Oct 16 - Wed, Oct 18		

Exams: Exams I-III will be administered at the Tracy Hall Testing Center and can be taken anytime during the time periods listed below. The final exam will be in class. You will need a scientific calculator. You will be given necessary formulas and tables for Exams I-III. The comprehensive final exam will be open book. Sample tests and additional review problems are available at http://faculty.weber.edu/aghoreishi/. **No** make-up exam will be given. **We will meet for our regular lectures during exam days.**

Exam I	Oct 2-4	(Chap 1-4)
Exam II	Oct 30 - Nov 1	(Chap 5-7)
Exam III	Nov 27-29	(Chap 8-10)
Final Exam	Wednesday, Dec 13, 8:30-10:20	

Grading: Exams will be curved as needed, but a minimum standard will be retained regardless of the class performance. You will be given the opportunity to replace a non-take-home homework quiz score by taking a replacement homework quiz. I will also provide a second opportunity to replace a homework quiz score. A typical course scale is [0, 57) E, [57, 68) D range, [68, 79) C range, [79, 90) B range, [90, 100] A range.

Exam I	75 points
Exam II	75 points
Exam III	75 points
Homework Quiz	100 points
Final Exam	150 points
Attendance	up to 10 *extra credit* points
Total	475 points

Other Important Dates:

Labor Day Holiday	Sep	4
Last day to cancel a class	Sep	18
Fall Break	Oct	20
Last day to drop with a grade of W	Nov	7
Thanksgiving Holiday	Nov	23-24

If you decide to drop this class, please inform me of your decision.

Extra Help: **Tutoring:** You will find tutors in the **Solution Space**, **TY 233**. All other tutoring information can be found at the website http://weber.edu/Tutoring .

Mathematics Students' Room: TY 230 is a perfect place to study! You will find the student solutions manual mentioned above in that room.

Course Coverage and Problem List for Math 1040
If a scientific calculator is not sufficient for a problem part, you may skip that part.

Section	Problems	Section	Problems
1.1	1-30, 39-41, 49-51	6.2	1-6, 7-33 (odd), 35, 36, 38, 41, 43, 44, 46
1.2	1-16, 17-20	7.1	1-12, 13-27 (odd), 32, 33, 35, 36
1.3	1-10, 13, 16	7.2	1-4, 5-33 (odd), 37-42, 47, 49, 50
1.5	5-11	8.1	1-8, 9-17 (odd), 19, 20, 23, 24, 28, 30, 31
1.6	1-6, 9, 10, 17, 19, 20	8.2	1-6, 7-13 (odd), 16, 17, 19, 20, 23, 24
2.1	1-5, 8, 10, 12, 13, 14, 18-20	9.1	1-6, 7-19 (odd), 21, 23, 24, 27, 29, 30, 33, 34
2.2	1-11, 17, 22, 23, 27, 33, 34, 39, 40, 42	9.2	1-6, 7, 15-21 (odd), 23, 25, 26, 30-32, 40
3.1	1-6, 8, 9, 11, 13-17, 19, 20, 22, 24-26, 28, 29	9.3*	1-4, 5-9(odd), 11-15
3.2	1-4, 5-15 (odd), 17, 18, 20, 23, 27, 30, 31	9.4 (No Lecture)	1-6, 9-14
3.4	1-4, 5-7, 10, 13, 16, 21, 22, 25	10.1	1-8, 9-11, 15-17, 23-25
3.5	1-4, 9, 10, 12, 14	10.2	1-6, 7-11 (odd), 15-18, 20-23
4.1	1-8, 9-15 (odd), 17-20, 23, 27, 28, 30, 32, 40	10.3	1, 2, 3-9 (odd), 15-19
4.2	1-4, 5, 6, 7-11 (odd), 13, 14, 19, 23, 24	10.4*	1, 2, 3-7 (odd), 9-12
4.3	1-4, 5-13 (odd), 15, 16, 21, 24, 26	10.5(No Lecture)	1, 2, 4, 6, 8, 9, 10, 13, 14
5.1	1-6, 7-25 (odd), 30, 31, 33, 34, 39-42	11.1	1, 2, 3-15 (odd), 19, 20, 23, 24, 26, 27, 33-35
5.2	1-4, 5-23 (odd), 26, 29, 31, 32, 33, 46	11.2	1-4, 5, 6, 11, 12, 14, 15, 16
5.3	1-10, 11-15, 18, 19, 21, 22, 27	11.3	1-6, 7-12, 18, 22
5.5	1-4, 5-29 (odd), 32-34, 41-43, 48-50, 55, 56, 61-64	11.4*	1-8, 9-13 (odd), 15, 16, 18, 20
5.6 (No Lecture)	1-32 except 14, 15, 21, 24 & 27	11.5 (No Lecture)	5, 6, 8, 11-14
6.1	1-4, 5-15 (odd), 18, 19, 21, 22, 26, 27, 33, 34	* If time permits.	