

SYLLABUS

UNIVERSITY OF CONNECTICUT
 Statistics 1100Q 326
 MayTerm MoTuWeTh 1:00-5:20pm
 Distance Learning Zoom

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 Elem Concepts of Statistics
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Texts

A FIRST COURSE IN STATISTICS, 12th edition, McClave & Sincich,
 Pearson, 2017. ISBN: 0-13-408062-9

Minitab Workbook

SCHEDULE OF ASSIGNMENTS

Date	Chapter Readings	Suggested Chapter Exercises (OPTIONAL)
May11	1.1-1.6, 2.1-2.4	Ch. 1: 1, 3, 5, 7, 9, 13, 14, 15, 17, 19, 21, 23, 25. Ch. 2: 1, 2, 3, 4, 6, 25, 26, 30, 49, 50, 51 52, 56, 57.
May12	2.5-2.10	Ch. 2: 73, 74, 75, 76, 77, 78, 93, 94, 95, 96, 97, 114 115, 116, 117, 125, 126, 128, 131-135, 137
May13	3.1-3.4	Ch. 3: 1, 3, 5, 7, 11, 13, 38, 39, 40, 41, 42, 43, 44, 46.
May14	Exam 1 HuskyCT (Bb)	
	3.5-3.6	Ch. 3: 68, 69, 70, 73, 107, 108, 109.
May18, 19	4.1-4.9	Ch. 4: 1, 3, 5, 7, 17, 18, 19, 20, 22, 23, 54, 55, 56 76, 77, 78, 79, 82, 104, 105, 143, 144, 152, 153, 157.
May20	5.1-5.5	Ch. 5: 1, 3, 5, 7, 9, 11, 30, 32, 55, 57, 74, 75, 77, 80.
May21	Exam 2 HuskyCT (Bb)	
May26	6.1-6.5	Ch. 6: 1, 3, 5, 7, 8, 9, 11, 13, 15, 18, 20, 23, 24, 29, 31, 33, 51, 52, 55, 73, 74, 75.
May27	7.1-7.4	Ch. 7: 1, 2, 4, 5, 7, 8, 13, 29, 30, 31, 32, 57.

May27 8.1-8.2 **Ch.8:1,2,3,4,5.**

May28 Final

EXAMINATION SCHEDULE

Exam 1	May14	covering chapters 1.1-3.4
Exam 2	May21	covering chapters 3.5-5.5
Final	May28	covering chapters 6.1-8.2

Student Responsibilities

1. Material from text, lecture, discussion covered in exams.
2. Makeup exams: Absences from exams excused only in extreme circumstances.

Grade Points

3 Exam Average	75
Attendance & Participation	15
Computer Assignments	$\frac{10}{100}$

Extra Credit Homework (suggested chapter exercises) max of 3 (0,1,2,3) points added to final grade points

CHAPTERS

- 1. Statistics, Data, and Statistical Thinking.**
- 2. Methods for Describing Sets of Data.**
- 3. Probability.**
- 4. Random Variables, and Probability Distribution.**
- 5. Inferences Based on a Single Sample: Estimation with Confidence Intervals.**
- 6. Inferences Based on a Single Sample: Tests of Hypotheses.**
- 7. Comparing Population Means.**
- 8. Comparing Population Proportions.**

#5

Chapter 5 – Binomial Random Variable

FOLLOW APPROPRIATE INSTRUCTIONS

1. Create & **Print fig.5-3** p.51 (Session)
2. Create & **Print fig.5-5** p.53. (Worksheet)
3. Create & **Print Chart fig.5-7** p.54

#6

Chapter 6 – Normal Random Variable

FOLLOW APPROPRIATE INSTRUCTIONS

1. Create & **Print fig.6-2** p.59.
2. Create & **Print fig.6-3** p.60.
3. Create & **Print fig.6-6** p.62.
4. Create & **Print Chart fig.6-13** p.68.

#7

Chapter 8 – Confidence Estimation

FOLLOW APPROPRIATE INSTRUCTIONS

1. Create & **Print fig. 8-1** p.82,83
2. Create & **Print fig.8-2** p.84
3. Create & **Print fig. 8.3** pp.85,86

#8

Chapter 9 – Hypothesis Testing

Examples.xlsx

FOLLOW APPROPRIATE INSTRUCTIONS

1. Create & **Print fig.9-3** p.25.
2. Create & **Print fig.9-4** p.97.
3. Create & **Print fig.9-6** p.99.
4. Create & **Print fig.9-9** p.102.

UConn-licensed Software Online

As an alternative to downloading and installing applications directly onto your computer, you can access the select university-licensed software on your devices through virtual environments. Software is streamed to your device on demand, giving you the feeling of a traditional installation without the upkeep and platform restrictions. With the software maintained remotely, you always have access to up-to-date versions, and since it is delivered in a virtual environment, you can run it on a wide-range of platforms and devices.

<https://software.uconn.edu/uconn-software-online/>

Many students at UConn face personal challenges or have psychological needs that may interfere with their academic progress, social development, or emotional well-being. The university offers a variety of confidential services to help students through difficult times, including individual assessments, educational materials and resources, crisis intervention, consultations, and mental health screenings. The Waterbury Campus Mental Health Resource Center (MHRC) provides confidential services and is available to all students free of charge. If you feel you need additional support, please utilize the MHRC.

Mental Health Resource Center

203-236-9817 or Claudia.Pina@uconn.edu

<https://waterbury.uconn.edu/student-life/student-resources/mental-health/>

In our course this semester, we will be using a statistical software package called Minitab. You do not need to purchase this software but you do need a license to use the software. The UConn IT department will set up the license with Minitab for you. Here are the steps you will need to follow:

1. Request a Minitab User Account.
2. Scroll to the bottom of the page and click on the box: I meet the eligibility Requirements.
3. Fill in the Minitab User Account Request: Type Statistics in the field "School or Department" and select "Student" as "Purchaser Affiliation".
4. Shortly, you will receive an e-mail in your UConn e-mail from Minitab; you do not have to respond to this e-mail. This just confirms that Minitab has received the license request from UConn and that your Minitab User Account has been set up. You will access your Minitab User Account using your UConn e-mail and sign-in using your netID / Password.
5. At this stage, how you actually access Minitab will depend on whether you are using a PC or a Mac.
 - a. PC users can download and install Minitab as a desktop app on their computer by downloading the installation file(s) from here, but to make the installed app work on your computer, you must have already set up your Minitab User Account as explained above.
 - b. Minitab as a desktop app cannot be installed on a Mac, so Mac users must access Minitab through the UConn AnyWare Desktop, where Minitab is already installed as a desktop app. But again, to make the installed app work on the UConn AnyWare Desktop for you, you must have already set up your Minitab User Account as explained above.
 - c. Of course, PC users may also access Minitab through the UConn AnyWare Desktop without installing the app on their computer.
 - d. Here are the instructions for accessing Minitab through the UConn AnyWare Desktop.
6. You can also use a web version of Minitab using your Minitab User Account, but the interface in that version is somewhat different from the interface in the desktop version. As such, you should use that option only if nothing else works for you