*Department of Mathematical Sciences*          *University of Wisconsin - Stevens Point*

Section 3, 5

**Instructor** Hurlee Gonchigdanzan

*Office:* D349 Science Building
*Phone:* (715) 346-4114
Email: hurlee@uwsp.edu

**Office Hours**

| | |
|---|---|
| 9:00 – 9:50 | Mon, Tue, Thu, Fri |
| 12:00 – 1:00 | Mon, Tue, Thu, Fri |

or by appointment

| | |
|---|---|
| Text | ***Introduction to the Practice of Statistics***, 8th Ed. <br> By David S. Moore and George P. McCabe |
| Web Page | **D2L @ UWSP** Brief lecture notes and practice problems are available. |
| Course Goal | Most sections of Chapter 1-9 in the text. <br><br> Chapter ① → ④ → ⑤ → ⑥ → ⑦ → ⑧ → ⑨ → ② → ③ |
| Prerequisites | Math.100 or a suitable placement test |
| Calculator | <u>A scientific calculator will be necessary in this course</u>. You may use a graphing calculator such as TI-83 or TI-84 etc. All cell phones and other electronic devices except for dedicated calculators must be turned off and put away during the tests and exam. |
| Attendance | <u>Attendance is required and will be taken</u>. Students are expected to attend every single class, and read the textbook and come to class prepared. In case of absence, it is your responsibility to catch up the missed class. Attendance will not be counted toward the course grade. |
| Homework | There are suggested homework problems for each section (see the ***Course Outline*** in D2L). Although homework will not be collected, it is an essential to solve as many suggested problems as you can. |
| Practice Problems | Besides the suggested problems in the textbook, there are a set of ***practice problems*** for each chapter. It will be posted in D2L. It is highly recommended to do the <u>practice problems</u>. There are NO written solutions to the practice problems. You need to see me if you have a question on the practice problems. |
| Test | We will have four (4) in-class tests. The dates will be announced a week before the test. |

[*Test #1*: Chap 1]          [*Test #2*: Chap 4 & 5]

[*Test #3*: Chap 6 & 7]          [*Test #4*: Chap 8 & 9]

**Note:** There is no test over Chap 2 & 3. However, these two chapters will be a part of the final exam.

**Take each test seriously!!! There is nothing for extra credit!!!**

You may use ONE 3x5 note card for formulas on each test.

- ✓ NO sentences, NO examples, NO solutions are allowed on the formula card.
- ✓ May NOT share your cards with others
- ✓ The use of formula sheet is optional, so you will NOT be excused, in case if you forget to bring your cards to the exam or forget to write some formulas.

Graded test will be reviewed in class for 10-15 minutes.
- NO phones during the review!!!
- Do NOT take notes from the test.
- Do NOT write anything on the graded test
- After the review, all tests must be returned to the instructor and it will remain with the instructor.
- You are allowed to see your test at any time during the semester but only in the instructor's office.

**Make-Up**

There is NO MAKE-UP test unless it is noticed in advance or emergency. If there is an unavoidable reason to miss it, you must document your absence.

**Final Exam**

The final is comprehensive. It's from 5pm-7pm, Friday, Dec 16. The room will be arranged by the end of the semester.

**Course Grade**

Tests and Final exam are weighed as follows:

*** 4 Tests ~ 72% (each test 18%)    *** Final exam ~ 28%

<u>Letter grades will be assigned as follows</u>

| | | | |
|---|---|---|---|
| $93\% \leq$ "A" $\leq 100\%$ | $87\% \leq$ "B+" $< 90\%$ | $77\% \leq$ "C+" $< 80\%$ | $65\% \leq$ "D+" $< 70\%$ |
| $90\% \leq$ "A-" $< 93\%$ | $83\% \leq$ "B" $< 87\%$ | $73\% \leq$ "C" $< 77\%$ | $60\% \leq$ "D" $< 65\%$ |
| | $80\% \leq$ "B-" $< 83\%$ | $70\% \leq$ "C-" $< 73\%$ | $0\% \leq$ "F" $< 60\%$ |

FOR HELP        - Ask questions at any time as they arise.
- See me before or after class
- Come to see me during the office hours
- Schedule an appointment for another time.

TUTORING SERVICES
- The *Tutoring and Learning Center* : http://www.uwsp.edu/tlc/
  Schedule: *http://www.uwsp.edu/tlc/Pages/schedules.aspx*
- The *MathRoom* (Sci. Bldg A113A).

DISABILITIES

If special accommodations are required for exams, you need to contact the Disability and Assistive Technology Center in room 609 of the Learning Resources Center (715-346-3365) email: disserv@uwsp.edu.

RIGHTS AND RESPONSIBILITIES

- Student Academic Standards and Disciplinary Procedures, UWS/UWSP Chapter 14:
  http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap14.pdf

GENERAL EVACUATION PROCEDURES
- http://www.uwsp.edu/rmgt/Pages/em/procedures/initial/general-evacuation.aspx

**Fall 2016**

Hurlee Gonchigdanzan
*Professor*

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| | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| **8:00 – 8:50** | | Math.356 *Sci.D224* | | Math.356 *Sci.D224* | Math.356 *Sci.D224* |
| **9:00 – 9:50** | Office | Office | | Office | Office |
| **10:00 – 10:50** | Math.355 *Sci.A202* | Math.355 *Sci.A202* | *Meeting* | Math.355 *Sci.A202* | Math.355 *Sci.A202* |
| **11:00 – 11:50** | Math.355 *Sci.A202* | Math.355 *Sci.A202* | *Meeting* | Math.355 *Sci.A202* | Math.355 *Sci.A202* |
| **12:00 – 1:00** | Office | Office | | Office | Office |
| | | | | | |

**Or by appointment**

*Introduction to the Practice of Statistics*, 8th Ed. (2014)    By David S. Moore and George P. McCabe

**Math 355**          **Elementary Statistical Methods**

*Department of Mathematical Sciences*          *University of Wisconsin-Stevens Point*

> > > > >  COURSE OUTLINE  < < < < <

**CHAPTER 1**          LOOKING AT DATA - DISTRIBUTIONS

**Section 1.1**          **Data**
Exercises >> 1.9, 1.11
*Read*: Section 1.1 and the SUMMARY

**Section 1.2**          **Displaying Distributions with Graphs**
Exercises >> 1.28, 1.29, 1.37
*Read*: Section 1.2 and the SUMMARY

**Section 1.3**          **Describing Distributions with Numbers**
Exercises >> 1.62, 1.63, 1.77
*Read*: Section 1.3 and the SUMMARY

**Section 1.4**          **Density Curves and Normal Distributions**
Exercises >> 1. 112, 1.129, 1.130, 1.140, 1.141
*Read*: Section 1.4 and the SUMMARY

**TEST#1**

**CHAPTER 4**          PROBABILITY

**Section 4.1**          **Randomness**
Exercises >> 4.2, 4.4,
*Read*: Section 4.1 and the SUMMARY

**Section 4.2**          **Probability Models**
Exercises >> 4.19, 4.21, 4.23, 4.28, 4.31
*Read*: Section 4.2 and SUMMARY

**Section 4.3**          **Random Variables**
Exercises >> 4.58(c), 4.61, 4.65, 4.66
*Read*: Section 4.3 and the SUMMARY

**Section 4.4**          **Means and Variances of Random Variables**
Exercises >> 4.72, 4.80, 4.93
*Read*: Section 4.4 and the SUMMARY

**CHAPTER 5**          SAMPLING DITRIBUTIONS

**Section 5.1**          **The Distribution of a Sample Mean**
Exercises >> 5.22, 5.23
*Read*: Section 5.2 and the SUMMARY

**Section 5.2**          **The Distributions for Counts and Proportions**
Exercises >> 5.51, 5.59(a,b), 5.68, 5.71
*Read*: Section 5.1 and the SUMMARY

**TEST#2**

**CHAPTER 6**          INTRODUCTION TO INFERENCE

**Section 6.1          Estimating with Confidence**
Exercises >>  6.13, 6.15, 6.36,
*Read*: Section 6.1 and the SUMMARY

**Section 6.2          Test of Significance**
Exercises >>  6.53, 6.55, 6.71, 6.73
*Read*: Section 6.2 and the SUMMARY

**Section 6.3/6.4          Use and Abuse of Tests and Power of Test**
*Read*: Section 6.3/6.4 and the SUMMARY


**CHAPTER 7**          INFERENCE FOR DISTRIBUTIONS

**Section 7.1          Inference for the Mean of a Population**
Exercises >>  7.17, 7.23, 7.29
*Read*: Section 7.1 and the SUMMARY

**Section 7.2          Comparing Two Means**
Exercises >>  7.63(a), 7.67, 7.71 (b,c,d)
*Read*: Section 7.2 and the SUMMARY

**Section 7.3          Comparing Population Spread**
*Read*: Section 7.2 and the SUMMARY

**TEST#3**


**CHAPTER 8**          INFERENCE FOR PROPORTIONS

**Section 8.1          Inference for a Single Proportion**
Exercises >>  8.13, 8.15, 8.19, 8.37(a), 8.71(c)
*Read*: Section 8.1 and the SUMMARY

**Section 8.2          Comparing Two Proportions**
Exercises >> 8.69,
*Read*: Section 8.2 and the SUMMARY

**CHAPTER 9**          INFRENECE FOR TWO WAY TABLES

**Section 9.1          Inference for Two-Way Tables: Independence test**
Exercises >> 9.25, 9.26, 9.40(c),
**Read**: Sections 9.2 and the SUMMARY

**Section 9.2          Goodness of Fit**
Exercises >> 9.42, 9.43
**Read**: Sections 9.2 and the SUMMARY

**TEST#4**

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# FINAL EXAM is comprehensive. More details will be given by the end of the semester.