

**MATH 355 ELEMENTARY STATISTICAL METHODS, Sections 7, 9**

Class Times: MTWR, 2:00 – 2:50 (Sec 7), or 3:00 – 3:50 (Sec 9) Science A202

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Office Hours: MTWR 1:00 - 1:50, or by appt.

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**Course Description:**

4 cr. Fundamental concepts and techniques that underlie applications to various disciplines, including descriptive statistics; averages; dispersion; random sampling; binomial, normal, Student T, Chi-square, and F distributions; estimation and tests of hypothesis; linear regression and correlation; laboratory emphasis on sampling and applications.

**Required Materials:**

1. **Text:** Introduction to the Practice of Statistics, 8th Ed. by Moore, McCabe and Craig. Also the LaunchPad online homework code available at the bookstore.
2. **Calculator:** TI-83, TI-83+, TI-84, or TI-84+ recommended. You need a calculator with basic statistical functions including mean and standard deviation. Cellphone calculators, and in general calculators that communicate with other calculators, are NOT allowed during tests.
3. **Computer access:** This course will use Microsoft Excel (other spreadsheets are fine) and MINITAB. This software is available at all UWSP computer labs. You are expected to have access to your UWSP email and Desire to Learn (D2L) account at UWSP. You will need internet access to use the online homework. You will receive instructions on this in class.

**Attendance:** You are expected to attend every class. In general, this is a course in which you cannot afford to miss a class. If you are absent, for any reason, it is your responsibility to talk with others who were present, and get notes from them. You are responsible for making sure that you have copies of all materials distributed in class, announcements made in class, and content covered in class. Missed quizzes will not be made up, but there will be extra quizzes during the semester. If you miss an exam (DON'T!), it is YOUR responsibility to contact the instructor ASAP.

**Homework and Quizzes:** There will be 6 or 7 written homework assignments during the semester. Due dates will be announced in class, and the assignments will be listed on the D2L page. For written assignments, you must write a complete solution to each problem, bare answers without support will receive no credit. Graphs should be labeled. Late homework will not be accepted without the instructor's permission. You may work on the homework with others, but each student must write and turn in their own complete assignment. In addition, there will be up to two short quizzes per week. These quizzes will be easy, and are mostly an attendance device. Missed quizzes may not be made up, but up to 3 of your lowest quiz grades will be dropped.

**Online Homework:** There will be an online homework assignment on LaunchPad every week. These assignments are easy, but they must be completed on time or you will be 'locked out' for that assignment. For this reason, late homeworks are not allowed, but there will be occasional make-up assignments available.

**Exams:** There will be four exams during the semester, plus a final exam. The exam dates and content will be announced in class well in advance. The first exam will be at the end of Chapter 2, probably on Wednesday, September 27.

**Final Exam:** The final exam will have a take-home portion and an in-class portion. The take-home, worth 40%, will be due the last week of class. The in-class portion will be held on **Monday, December 18, at 5:00 pm.**

**Grade Calculation:**

Homework and Quizzes	28%
4 Exams	48%
<u>Comprehensive Final Exam</u>	<u>24%</u>
Total	100%

The "Homework and Quizzes" portion of your grade will be subdivided as follows: Written homework 13%, Quizzes 7%, Online homework: 8%.

Grades for each assignment and exam will be recorded on your D2L page. Questions about individual grades must be addressed within one week from the day the paper is returned to you.

Your letter grade will be assigned based on the following scale:

A: 93-100%	A - : 90-92%	B+: 87-89%
B: 83-86%	B-: 80-82%	C+: 77-79%
C: 73-76%	C- : 70-72%	D+: 67-69%
D: 60-66%	F: 59 % or less	

The above table is a minimum guide, the instructor may make positive adjustments at the end of the semester.

**Help Available:**

MATH ROOM: Drop-in help and by appointment; A113 Science

INDIVIDUAL TUTORING: TLC

STUDY GROUPS: Meet with your peers on a regular basis; Free

INSTRUCTOR OFFICE HOURS: See office hours, above.

**Enduring Understandings and Learning Outcomes:** This course satisfies the Quantitative Literacy (QL) component of the General Education Program. These general ‘deliverables’ will be emphasized throughout the course. Successful students will be able to:

- Select, analyze, and interpret appropriate numerical data used in everyday life in numerical and graphical format.
- Identify and apply appropriate strategies of quantitative problem solving in theoretical and practical applications.
- Construct a conclusion using quantitative justification.

In general, I want you to approach data like a scientist. The main tasks involved are: Exploring data, quantifying uncertainty, drawing valid conclusions, and communicating results using written and graphical methods.

**Academic Integrity:** You should be fully aware of your rights and responsibilities as a UWSP student. These are detailed in the UWSP Community Bill of Rights and Responsibilities found at <http://www.uwsp.edu/dos/Documents/CommunityRights.pdf>

Information regarding Section 504 of the Rehabilitation Act or the Americans with Disabilities Act can be found at the UWSP Disability and Assistive Technology Center site <http://www.uwsp.edu/disability/Pages/default.aspx>

**Religious Beliefs:** Students' sincerely held religious beliefs will be reasonably accommodated with respect to all examinations and other academic requirements. According to UWS 22.03, you must notify the instructor within the first three weeks of classes about specific dates which require accommodation. See the link below: <http://www.uwsp.edu/dos/Documents/CommunityRights.pdf>