**MATH 255 ELEMENTARY STATISTICAL METHODS**

**T, Th: 5 - 6:50 pm**

**INSTRUCTOR:** Dr. Kavita Bhatia **OFFICE:** Room 207B

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**OFFICE HOURS:** T, Th 4 – 5 pm and by appointment.

**PREREQUISITES:** Math 95 or placement based on the placement test score.

**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, 9th Ed. by Moore, McCabe and Craig.
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). You are expected to have access to your UWSP email and Canvas account at UWSP.

**CLASSROOM ETIQUETTE:**

* All cellular phone, beepers, and electronic devices that could disrupt class should be in sleep mode or off while class is in session.
* If you plan to attend class, be there at the beginning, be engaged and stay until the end.

**GRADING POLICY:** Your course grade will be computed as follows:

|  |  |
| --- | --- |
| Quizzes | 10% |
| Assignments | 15% |
| Exams (3 x17%) | 51% |
| Final Exam | 24% |
| **Total** | **100%** |

The above distribution may change at the discretion of the instructor.

**ATTENDANCE:** You are expected to attend all classes. In the event of an absence you are responsible for making up the material that you missed. 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. You will not receive any attendance points if you miss more than five minutes of class. Bonus points will be given for attendance as follows:

0-1absence: 1.0 % 2-3 absences: 0.5%

**GRADING SCALE:** Grades will be assigned according to the scale below:

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

**QUIZZES:** There will be a quiz on most Thursday’s. The problems will be similar to the homework problems. There will be **NO** make up quizzes. The quiz with the lowest score will be dropped.

**HOMEWORK:** Homework will be assigned every class period. You should work additional problems if you have difficulty with a topic. I will take questions on the homework at the beginning of every class.

**ASSIGNMENTS:** There will be a few written assignments during the semester. Due dates will be announced in class, and the assignments will be listed on the Canvas 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 problems with others, but each student must write and turn in their own complete assignment.

**EXAMS:** There will be 3 exams during the course of the semester plus a final. Make up exams will be given only in the case of a ***verifiable emergency***. Exam dates will be announced at least a week in advance. The first exam will most likely be at the end of chapter 2. The final exam is **comprehensive**. Your final exam is scheduled for **Tuesday, December 17, 5-7 pm**.

**ACCOMMODATION OF RELIGIOUS BELIEFS:** Any student who cannot be present for a scheduled exam due to a religious observance will be provided with an alternative way of fulfilling that course requirement, provided the student notifies me ahead of time.

**ACADEMIC MISCONDUCT:** Academic integrity and honesty are central to the mission of this institution. All cases of academic misconduct will be treated according to the procedures laid out in UWS 14. UWS 14 allows for disciplinary sanctions that range from an oral reprimand to suspension or expulsion from the University. You can obtain a copy of the academic misconduct policy through the Student Services office.

This is a challenging course and requires serious effort on your part. I am available to help you whenever you need any help. Please do not wait to get help if you are having trouble. The only way to learn mathematics is by doing it. **So work hard and do not fall behind.**

*Do not worry about your difficulties in mathematics; I can assure you that mine are still greater.*

Albert Einstein