MATH 255-05: Elementary Statistical Methods Spring 2022

Instructor

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Office Hours: M-W 3:00pm-3:50pm or by appointment

Class Schedule

January 24 – May 13; MoTuWeTh 11:00am – 11:50am, Science Building (SCI) A202

Course Description

MATH 255 - 4 credits. 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. May not earn credit in both MATH 255 and MATH 354
Prerequisite(s): MATH 95 or suitable placement score

Required Materials

- Text: Introduction to the Practice of Statistics, 10th edition by Moore, McCabe, and Craig.
- Calculator: TI-83, TI-83+, TI-84, or TI-84+ are strongly recommended. You need a calculator with basic statistical functions such as mean and standard deviation. TI-30XIIS also will work.
  - **Cell phone calculators and calculators with computer algebra systems will not be allowed on exams.**

Grading

Final Grade Weights:
- Four Chapter Tests: 75%
- Final Exam: 25%

Assignments: There will be no homework turned in for credit for this class. Practice problems will be posted in canvas for each of our sections. These problems will be similar to what we cover in class. I will not hand out solutions to these problems, but you are welcome to come to my office hours or email me if you want me to check your work. We will also have class time to work on the practice problems.

Chapter Tests: Tests on chapter material will be done on paper in class. Partial credit will be given for all problems when appropriate. You may use calculators, but no notes or books are allowed. A formula sheet will either be given to you, or you may make your own, this will be decided later and announced to the class. Make-up chapter tests will not be allowed unless an excused absence has been documented. Please contact me before the test if you know there is going to be an issue.

Final Exam: There will be a final exam in person in **SCI D102 on May 16 at 5pm**. It will cover all material previously covered in the course.

Attendance: Attendance will not count explicitly in the calculation of your grade, but attending class is imperative since all the tests and final exam will be mostly based on what we cover in class.

Grading Scale

Final grades will be based on the percentages shown below. I reserve the right to lower/raise these cutoff points. The cutoff points are:

94%- 100%	A	80%- 83%	B-	67%-69%	D+
90%- 93%	A-	77%-79%	C+	64%-66%	D
87%- 89%	B+	74%-76%	C	60%-63%	D-
84%- 86%	B	70%-73%	C-	0%-59%	F

Exam Schedule

Exam	Tentative Dates
Test 1: 1.1, 1.2, 1.3, 1.4	**February 9**
Test 2: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3	**March 2**
Test 3: 4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	**April 5**
Test 4: 6.1, 6.2, 6.3, 6.4, 7.1, 7.2	**May 2**
Cumulative Final Exam, including 8.1. 8.2, 9.1, and maybe 9.2	**May 16, 5pm** (Definitive date)

General Education Learning Outcomes

This course satisfies the Quantitative Literacy (QL) component of the General Education Program. At the end of this 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, we 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.

Tutoring-Learning Center (TLC)

The Tutoring-Learning Center (TLC) offers FREE tutoring to support you in your math classes. The tutors are UWSP students who have done well in their classes and who are here to share their successful study habits and math content knowledge to help others succeed. Discussing mathematical concepts and practicing problems together clarifies and solidifies knowledge, and the tutors are eager to study with you.

- STEM One-on-One Tutoring: https://www.uwsp.edu/tlc/Pages/request-math-science-tutoring.aspx
- STEM Drop-In Tutoring: https://www.uwsp.edu/tlc/Pages/dropInTutoring.aspx

UWSP Technology Support

- Seek assistance from the IT Service Desk (Formerly HELP Desk)
    - IT Service Desk Phone: 715-346-4357 (HELP)
    - IT Service Desk Email: techhelp@uwsp.edu

University Policy Regarding Students with Disabilities

If you have a documented disability and verification from the Disability and Assistive Technology Center and wish to discuss academic accommodations, please contact your instructor as soon as possible. It is the student's responsibility to provide documentation of disability to Disability Services and meet with a Disability Services counselor to request special accommodation *before* classes start. The Disability and Assistive Technology Center is located in 609 Albertson Hall and can be contacted by phone at (715) 346-3365 or via email at datctr@uwsp.edu

Understand When You May Drop This Course

It is the student's responsibility to understand when they need to consider unenrolling from a course. Refer to the UWSP Academic Calendar for dates and deadlines for registration. After this period, a serious and compelling reason is required to drop from the course. Serious and compelling reasons includes: (1) documented and significant change in work hours, leaving student unable to attend class, or (2) documented and severe physical/mental illness/injury to the student or student's family.

Statement of Academic Integrity

Academic Integrity is an expectation of each UW-Stevens Point student. Campus community members are responsible for fostering and upholding an environment in which student learning is fair, just, and honest. Through your studies as a student, it is essential to exhibit the highest level of personal honesty and respect for the intellectual property of others. Academic misconduct is unacceptable. It compromises and disrespects the integrity of our university and those who study here. To maintain academic integrity, a student must only claim work which is the authentic work solely of their own, providing correct citations and credit to others as needed. Cheating, fabrication, plagiarism, unauthorized collaboration, and/or helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. Failure to understand what constitutes academic misconduct does not exempt responsibility from engaging in it. Students suspected of academic misconduct will be asked to meet with the instructor to discuss the concerns. If academic misconduct is evident, procedures for determining disciplinary sanctions will be followed as outlined in the University System Administrative Code, Chapter 14.

This syllabus is subject to change and you are responsible for keeping up with any changes and announcements.