



Walters State Community College Course Syllabus

Course Information

Course Number and Name: MATH 1530 Introductory Statistics

Section ID: 81083.202380

Semester and Year: Fall 2023

Credit Hours: 3

Start Date: August 21, 2023

End Date: December 08, 2023

Course Format: WEB - Web Classes

Catalog Course Description: An introduction to probability and statistics without calculus including descriptive statistics, probability distributions, the normal distribution, testing hypotheses, the t-test, and estimates and sample sizes. The student should check transfer institution catalogs to decide between MATH 1530 and MATH 2050 Probability and Statistical Applications. Prerequisite(s): Two years of high school algebra or Learning Support mathematics. Co-prerequisite(s): MATH 0030 required for students with ACT math score below (or equivalent score as determined by the college placement and assessment procedure) or have not completed all learning support mathematics requirements. **F, S, SU**

General Education Course Designation: General Education Course

Meeting Details: TBD

Course Drop Deadline: October 27, 2023

Instructor Information

Name: Troy Bowman

Office Location: MBSS 237

Office Hours: By appointment.

Office Phone: 423-585-6937

Email: troy.bowman@ws.edu

Supervisor Name: Chris Knight, Deam of Mathematics

Supervisor Phone: 423-585-6879

Required Textbook(s) and Materials

Fundamentals of Statistics 5th Edition

Authors: Michael Sullivan, III

Additional Information

Purchase of Pearson MyStatLab access or code provides access to the eBook.

Student Learning Outcomes/Objectives

- Course Outcomes
 1. Organize and summarize data using frequency distributions, histograms, and descriptions of central tendency and variation.
 2. Compute probabilities including the use of the addition rule, the multiplication rule, and conditional probabilities.
 3. For applied problems, compute probabilities using the normal distribution and the central limit theorem and find percentile scores using normal distributions.
 4. Make inferences about population means and proportions from sample data using confidence intervals. Determine sample sizes required to estimate means.
 5. Make scatterplots of paired data, analyze the data using linear regression and correlation, and make predictions.
 6. Test claims about population means using hypothesis testing.
 7. Use computer programs and/or a graphing calculator to perform statistical analysis

Instructional Approach and Methods

Online / Web course

Students will be working through the course material on MyMathLab with the help of the eBook and Course content/ study aids. The course content/study aids can be found on eLearn under the Course Content tab. This content will include notes, videos, power points, etc. Students will be completing weekly assignments(Homework and Quizzes) on MyMathLab to prepare the student for the course Exams. All assignments must be completed before the individual assignment deadline. Students will have the opportunity to email questions or meet virtually with the instructor of the course. The course schedule/calendar can be found on eLearn.

Assessment, Evaluation and Testing Procedures

1. **Homework:** Homework will be administered and graded through MyLabs. Each homework problem can be attempted an unlimited number of times until the deadline. Deadlines may vary a bit, but will typically be 11:59 pm on the due date. Each module will have a homework assignments for a total of 20 homework assignments. Each counts 10 points for a total of 200 possible points. Note: A total of 1800 points is needed for an A in the class. Since the homework is UNLIMITED, these points can take your grade a long way to get a good grade. Settling for fewer points means you have to make them up on the quizzes and exams.
2. **Quizzes:** Quizzes will be administered and graded through MyLabs. Each quiz can be attempted two times until the deadline, with the highest quiz score counting. Deadlines may vary a bit, but will typically be 11:59 pm on the due date. Each module will have a quiz for a total of 20 quiz assignments. Each counts 10 points for a total of 200 possible points. Note: Since there are two quiz attempts and the highest score counts, it would benefit you to take both attempts (unless you make 100%). Settling on fewer points means you have to make them up on the exams.
3. **Exams:** Students are REQUIRED to complete a three proctored Exams and a proctored Final Exam in Pearson MyLabs via Proctor U. Exams will be timed and must be completed in one sitting. (Students may not leave the exam and return to complete it later.) Each exam will have only one attempt. The exams count 400 points each and the Final counts 400 points for a total of 1600 possible points. If an exam is missed for any reason, the Final Exam score will be counted twice to replace the missed exam score. If more than one exam is missed, the student will receive a zero for that exam score. If all three exams are taken without any academic misconduct and one test score is lower than the Final Exam score, the Final Exam score will replace the lowest exam score. In this case, the Final Exam score will count twice. If academic dishonesty occurs on an exam, the student will receive minimally a zero on the exam but penalties could be up to and including failure of the entire course as stated under Walter State Academic and Classroom Misconduct Policy.

Any assignment, quiz, or exam not completed by the due date will receive a score of 0.

Testing Procedures:

Students will be using Proctor U services to take the proctored Exams. Students will make sure their computer is compatible with the Proctor U services before taking the exams. Proctor U information is available on eLearn. Students will need a web cam, microphone, and current ID to take the exams.

Grading Scale

A	1800 or above points (90% or above)
B	1600 – 1799.99 points (80% to 89.99%)
C	1400 – 1599.99 points (70% to 79.99%)
D	1200 – 1399.99 points (60% to 69.99%)
F	Below 1200 points (below 60%)

Assignments

	Sullivan Textbook
Data Collection	
Introduction to the Practice of Statistics	1.1
Observational Studies versus Designed Experiments (Optional)	1.2
Simple Random Sampling	1.3
Other Effective Sampling Methods	1.4
Organizing and Summarizing Data	
Organizing Quantitative Data: The Popular Displays	2.2
Numerically Summarizing Data	
Measures of Central Tendency	3.1
Measures of Dispersion	3.2
Measures of Position and Outliers	3.4
The Five-Number Summary and Boxplots	3.5
Describing the Relation between Two Variables	
Scatter Diagrams and Correlation	4.1
Least Squares Regression	4.2
The Coefficient of Determination (Optional)	4.3
Probability	
Probability Rules	5.1
The Addition Rule and Complements	5.2
Independence and the Multiplication Rule	5.3
Conditional Probability and the General Multiplication Rule	5.4
The Normal Probability Distribution	
Properties of the Normal Distribution	7.1
Applications of the Normal Distribution	7.2
Assessing Normality (Optional)	7.3
Sampling Distributions	
Distribution of the Sample Mean	8.1
Distribution of the Sample Proportion	8.2
*Only: Introduction of sample proportion necessary for	

confidence intervals	
Estimating the Value of a Parameter	
Estimating a Population Proportion	9.1
Estimating a Population Mean	9.2
Hypothesis Tests Regarding a Parameter	
The Language of Hypothesis Testing	10.1
Hypothesis Tests for a Population Proportion	10.2
Hypothesis Tests for a Population Mean	10.3
Inferences on Two Samples	
Inference about Two Means: Dependent Samples	11.2
Inference about Two Means: Independent Samples	11.3

Class Participation

Attendance will be taken each week of the course. With the class being online, attendance means completing the assignments for that week. The first date of attendance will be the day you complete the Pearson MyStatLab Orientation homework. The last date of attendance will be the last day you work on an assignment in MyStatLab.

Online/Web-Enhanced Course Supplementary Information

Students will be using Proctor U services to take the proctored Exams. Students will make sure their computer is compatible with the Proctor U services before taking the exams. Proctor U information is available on eLearn. Students will need a web cam, microphone, and an current ID to take the exams with Proctor U.

Academic Honesty

Faculty expect all students to refrain from acts of academic misconduct including but not limited to:

1. Plagiarism - refers to using another person's ideas or writing without giving proper credit to the original source. Indulging in this type of conduct will subject the student to disciplinary sanctions, which may be imposed through the regular institutional procedures of Walters State Community College as outlined in the Student Handbook. Plagiarism will result in a grade of "0" for the paper/exam/presentation. Student Conduct and Disciplinary Sanctions contained in the

college Catalog/Student Handbook apply (see policy 04:18:02 Disciplinary Sanctions).

Plagiarism includes, but is not limited to the following:

- a. Using cut/paste tool from original document with no references given.
 - b. Copying another student's work and submitting it as one's own.
 - c. Forging or otherwise altering signatures.
 - d. Giving or falsifying academic documents or materials.
2. Cheating - construed as attempting to deceive or mislead which includes, but is not limited to the following:
- a. Utilizing old tests, projects, notes or written papers.
 - b. Providing unauthorized information to a fellow student about exam content.
 - c. Receiving unauthorized aid from any source with quizzes, examinations, or other assignments.
 - d. Seeking information in an unacceptable manner during/preceding an exam or other assigned work (cheat sheet, verbal exchange, looking at another person's paper or electronic device, utilizing headphones, using textbook when the test/quiz is not an open book test/quiz, using textbook test bank etc.).
 - e. Consulting with a classmate or others when taking a computerized test.
 - f. Disregarding other specific policies and procedures outlined for a particular class.
 - g. Utilizing unapproved technology/electronic equipment during testing (i.e.: mobile devices such as cell phones, smart devices, or tablets, etc.).
 - h. Using the same Internet Protocol network address (IP address) as another student for testing without approval from the course faculty.
3. The use of any generative artificial intelligence (AI) tool, such as OpenAI's ChatGPT, Google's Bard, or any other pre-trained language model (commonly referred to as "chatbot"), must be cited for any assignment where it has been used and may not be used unless specifically allowed by your instructor. Please see your instructor or the course policies within the syllabus if you have questions.

Student Resources

TUTORING SERVICES

Students in need of tutoring assistance are encouraged to contact the Office of Student Tutoring located as follows:

- Morristown Campus - Student Services Building Room L107 - (423) 585-6920

- Niswonger Campus - GRNV 226 - (423) 798-7982
- Sevierville Campus - MMH Room 210 - (865) 286-2787
- Claiborne Campus - Room 123A - (423) 851-4761

Specific tutoring assistance in mathematics and writing is available in-person and online as follows:

- Morristown Campus - English Learning Lab - HUM 120 - (423) 585-6970

[Walters State English Learning Lab \(opens in new window\)](https://www.walters.edu/academics/humanities/writing-lab)
[ws.edu/academics/humanities/writing-lab](https://www.walters.edu/academics/humanities/writing-lab)

- Morristown Campus - Mathematics Lab - MBSS 222 - (423) 585-6872

[Walters State Mathematics Learning Lab \(opens in new window\)](https://www.walters.edu/academics/mathematics/learning-lab)
[ws.edu/academics/mathematics/learning-lab](https://www.walters.edu/academics/mathematics/learning-lab)

TECHNOLOGY SUPPORT

Students who need assistance with computing and technology issues should contact the IET Helpdesk by phone at Morristown: (423) 318-2742; Niswonger: (423) 798-8186; or Sevierville: (865) 286-2789 or on-line access.

[Walters State Helpdesk \(opens in new window\)](https://www.walters.edu/helpdesk)
[helpdesk.ws.edu](https://www.walters.edu/helpdesk)

STUDENTS WITH DISABILITIES SUPPORT SERVICES

Students with disabilities must register with Student Support Services each semester in the Student Services Building, Room U134 (phone (423) 585-6892) if they need any special facilities, services, or consideration.

[Walters State Student Support Services \(opens in new window\)](https://www.walters.edu/student-services/disability/)
[ws.edu/student-services/disability/](https://www.walters.edu/student-services/disability/)

SUICIDE PREVENTION STATEMENT

Walters State is committed to and cares about all students. Support services are available for any person at Walters State who is experiencing feelings of being overwhelmed, hopelessness, depression, thinking about dying by suicide, or is otherwise in need of assistance. For immediate help, contact the National Suicide Prevention Lifeline by calling or texting 9-8-8 or the Trevor Lifeline at 1-866-488-7386. Veterans may also contact the Veterans Crisis Line at 1-800-273-8255 (press 1) or Text 838255.

Walters State has a relationship in place with the following community agencies to provide services (may include crisis referral services, prevention screenings, etc.):

- Cherokee Health Systems 423-586-5032
- Frontier Health 423-467-3600

College Policies

STUDENTS HANDBOOK AS OFFICIAL GOVERNING DOCUMENT

This class is governed by the policies and procedures stated in the current Walters State Community College Student Handbook. All students attending Walters State Community College, regardless of the time, location, or format of the class, must abide by the rules and regulations outlined in the current Walters State Catalog/Student Handbook and the current Walters State Timetable of Classes.

[Walters State Catalog \(opens in new window\)](#)
catalog.ws.edu/

[Walters State Timetable of Classes \(opens in new window\)](#)
ws.edu/admissions/registration/

PURPOSE, LIMITATIONS AND MODIFICATION OF SYLLABUS

This syllabus sets forth the expectations for the course content, work, and grading as well as expectations for student performance and conduct. The syllabus does not constitute a contract between the student and the instructor or the College. The information contained here is subject to change at any time. The instructor reserves the right to modify this syllabus at any time with written notification to the students. Though changes are possible, it is expected that the course will be conducted as described in this syllabus for the semester/year specified in the Course Information section of the syllabus. This syllabus is only valid for the semester/year specified and course requirements are not guaranteed for future semesters.

COURSE GROUND RULES

- Students must attend the first day of on-ground class or contact the instructor prior to the first class. Failure to do this may result in being dropped from the class. Excessive absences may substantially lower the course grade.
- Regular class attendance is a student's obligation for any course regardless of format. (See the Walters State Catalog/Student Handbook). If a student misses class, it is his or her responsibility to contact the instructor regarding missed assignments and/or activities and to be prepared for the next class assignment.
- Students enrolled in web courses must follow the course attendance policy defined for online attendance during the first week of class and throughout the term. Failure to do this may result

in being dropped from the class during week one OR may result in the accrual of absences which may negatively impact the student's grade in the course.

- Students who have not paid fees on time and/or are not correctly registered for this class and whose names do not appear on official class rolls generated by the Walters State student information system (MyWS) will not be allowed to remain in class or receive credit for this course.
- Electronic devices must not disrupt the instructional process or college-sponsored academic activity. Use of electronic devices is prohibited unless use of the device is relevant to the activity and use is sanctioned by the faculty member in charge. Electronic devices that are not relevant to the activity or sanctioned by the faculty member in charge should be set so that they will not produce an audible sound during classroom instruction or other college-sponsored academic activity.

FINANCIAL AID

Students receiving any type of financial aid or scholarship should contact the Financial Aid Office before making any changes to their schedule. Schedule changes without prior approval may result in loss of award for the current term and future terms.

All forms of student Financial Aid may be jeopardized or lost due to the lack of Satisfactory Academic Progress in one or multiple courses. Lack of Satisfactory Academic Progress may negatively impact a student's degree/certificate completion pace and further jeopardize Financial Aid eligibility.

CANCELLATION OF CLASSES AND ACADEMIC CONTINUITY

For information related to the cancellation of classes due to inclement weather or other events, please check the Senators Emergency Text system or the college's Web site at:

[Walters State Homepage \(opens in new window\)](#)

ws.edu/home/

[Walters State Facebook page \(opens in new window\)](#)

<https://www.facebook.com/WaltersState/>

[Walters State Twitter page \(opens in new window\)](#)

<https://twitter.com/waltersstate>

or call the college's student information line, 1-800-225-4770, option 1; the Sevier County Campus, (865) 774-5800, option 7; the Niswonger Campus (423) 798-7940, option 7; or the Claiborne County Campus, 423-636-6200, option 7. Also, please monitor local TV and radio stations for further announcements.

When an event or disaster interrupts the scheduled operations of the college and the ability to proceed with the academic course activities as planned, the college and your instructor may alter the course plan outlined in the syllabus. Should an event occur, students should refer to their course e-Learn pages and/or class materials previously delivered to receive guidance from their instructor. Students should continue to monitor the official college channels of communication listed in the above paragraph. If you would like to sign up for the Senators Emergency Text system, please go to the following Web site:

[Senator Emergency Text System \(opens in new window\)](#)
ws.edu/set/

Dual Enrollment students attending on a high school campus should refer to the high school inclement weather cancellations.

LEARNING MANAGEMENT SYSTEM

Brightspace (commonly known as eLearn or D2L) is the college's Learning Management System (LMS).

Brightspace is committed to accessibility by "deliver[ing] a learning experience that meets the needs of all people, regardless of age or ability." [Brightspace Accessibility Standard \(opens in new window\)](#)

Brightspace is also committed to guarding student data and privacy. [Brightspace Privacy Policy \(opens in new window\)](#)