



Walters State Community College Course Syllabus

Course Information

Course Number and Name: ENST 2351 Statistics for Quality Control

Section ID: 80804.202380

Semester and Year: Fall 2023

Credit Hours: 3

Start Date: August 21, 2023

End Date: December 08, 2023

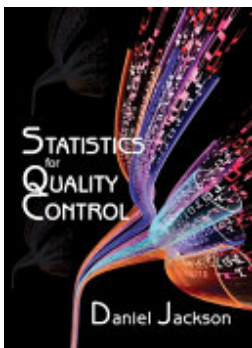
Course Format: CON - Conventional Methodology

Catalog Course Description: A study of statistics as it is used in manufacturing to improve and control processes. **S, offered even years only. Prerequisite of MATH 1630, MATH 1710, or MATH 1720. As Needed. (NIT) 2 hours lecture/2 hours laboratory.**

Meeting Details: TR; 08:00AM - 09:50AM; TECH 222

Course Drop Deadline: October 27, 2023

Required Textbook(s) and Materials



Statistics for Quality Control

ISBN: 9780831135171

Authors: Dan Jackson

Publisher: Industrial Press

Publication Date: 2015-04-01

Additional Information

Book is 241 that includes the Index

Supplemental or Optional Materials

Information on how to add acquire the software will be added at a later date.

Student Learning Outcomes/Objectives

- Pragmatic uses of statistical data sets to include inferences from the Automotive, Aerospace, and Consumer Commercial products industry
- Why gather statistical data? Attribute vs. concrete data sets
- Understanding of control charts used in industry in regard to statistical process control
- DOE-Design of Experiments Explained and their practical uses
- Discussion of Gage R&R to define the differences in repeatability and reproducibility

Instructional Approach and Methods

The course content is divided into 16 modules. The first module is the Getting Started Module, which will contain all the information the student will need to manage the course. Your course syllabus, course schedule, and other useful information can be found in this module.

The other 15 modules each cover one week of content for the course. Each module will include useful resources such as a Module Introduction, links to dropboxes, discussion boards, handouts, and links to web pages and videos that provide additional information. There are also links to self-assessment quizzes. These quizzes are optional and you receive no grade for them. Their purpose is to allow you to personally assess what you have learned during your week of studies. Once the quizzes are complete, you will receive feedback regarding the questions and your answers. These quizzes have deadlines, so be mindful of them as each week closes. The modules will be covered as noted in the course schedule located in the Getting Started Module.

Assessment, Evaluation and Testing Procedures

Weekly quizzes, homework assignments, attendance, and mid-term and final exams will be used for assessment purposes. Final grades will be determined by the following weights:

- Attendance - 10%
- Weekly quizzes and assignments to include homework – 40%
- Mid-term and final exams in project form – 50%

Grading Scale

A	90-100
B	80-89
C	70-79
D	60-69
F	Below 60

Assignments

Each chapter from the textbook has practice problems and/or review questions to be completed and submitted for the weekly assignment and homework grade. These assignments are intended to assess the students' progress through the course.

Class Participation

Students are expected to attend every class unless dire circumstances prevent the student from attending. Such circumstances are covered under the Excused Absences section of the syllabus. If your course section requires you to be in a classroom, attending from home via virtual meeting software does not equate to being in attendance. You will be marked absent. All students are expected to be engaged, either in person or through virtual meeting software (with camera) when the meeting starts. Attendance will be taken during the first five minutes of class.

Course and Class Policies/Procedures

Students with “excused absences” must complete all make-up work within (7) days. Exceptions to this rule must be discussed with and cleared by the instructor BEFORE the deadline. Examples of excused absences include, but are not limited to, personal illness, illness of a spouse, child, or close family member, bereavement, and pre-approved school functions. Documentation is required in all cases. Faculty are not obligated to allow students to make up work missed due to unexcused absences.

Attendance is required in traditional, hybrid, video and DVC sections. It will be taken within the first five minutes of the class period. Attendance for Web courses is counted by having all your completed assignments turned in by the deadline. Attendance comprises 10% of the final grade, and will be based on daily attendance grades. Students get a grade of 100 if they are in class when roll is called. Tardiness costs students 50 points. Web students do not get 50% for incomplete work. Absences count zero points. Work for excused absences may be made up, but an excused absence does not erase an attendance grade of zero. It is the responsibility of tardy students to notify the instructor of their late arrival to class as the class session ends. Once the session ends, absences will not be converted to tardy arrivals.

Additional Course Requirements/Details/Information

Inappropriate Class Activities

Once class has started, please be courteous and give your attention to the instructor. Reading e-mail, browsing the Web, playing games, or working on other assignments are not appropriate activities during lecture or lab. Failure to abide by this rule or any other course ground rules can result in students being asked to leave the classroom.

If you are in attendance via virtual meeting software, you are expected to have your camera on and directed toward your face/head. You are also expected to have your microphone muted unless you want to ask a question.

Campus policies prohibit the use of ALL tobacco products inside all buildings. (See the Walters State Catalog/Handbook.)

Campus policies prohibit minors from accompanying parents into the classroom and from being left unsupervised outside in hallways. (See the Walters State Catalog/Handbook.)

Food and drinks at the computer stations are prohibited.

Syllabus

Syllabus is subject to change as the need arises throughout the semester.

Passwords for individual student computer accounts are NOT to be shared with other students or provided to unauthorized persons outside of the school environment.

Academic Program Standards/Policies/Accreditation Information

The AAS degree in Electrical Engineering Technology and the AAS degree in Engineering Systems Technology are both accredited by the Association of Technology, Management and Applied Engineering, or ATMAE. Students should be mindful of this and make sure to include this information on resumes when the job search process begins.

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://ws.edu/academics/humanities/writing-lab)
ws.edu/academics/humanities/writing-lab

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

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

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 \(opens in new window\)](#)
ws.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](#)).