



STANDARD COURSE SYLLABUS

BAD 2323 Business Statistics

COURSE TITLE: BAD2323 Business Statistics

COURSE DESCRIPTION: Introduction to statistical methods of describing, summarizing, comparing, and interpreting data to include probability distributions, sampling, estimation, confidence intervals, and hypothesis testing. (3 semester hours credit).

COURSE GOALS: Students will be able to: A. Describe data sets. B. Calculate measures of central tendency and variability. C. Apply probability calculations. D. Differentiate between continuous and discrete distributions. E. Calculate confidence intervals. F. Perform hypothesis testing.

STUDENT LEARNING OUTCOMES:

At course completion students will:

1. Explain the meaning and importance of statistics in business.
2. Explain descriptive and inferential statistics.
3. Describe the types of statistical variables.
4. Describe the levels of measurement.
5. Construct a frequency distribution.
6. Construct a histogram, frequency polygon, and relative frequency polygon.
7. Perform or describe other basic methods for graphically presenting statistical data.
8. Explain the basic measures of central tendency, to include: the population and sample mean, weighted mean, median, and mode for ungrouped data; and the mean, median, and mode of frequency distributions.
9. Explain the relative positions of mean, median, and mode.
10. Explain and demonstrate the basic measures of dispersion, to include: the range, mean deviation, variance, and standard deviation of ungrouped data; the range and standard deviation of frequency distributions; and quartiles, deciles, and percentiles.
11. Explain and demonstrate the interpretation and uses of the standard deviation, relative dispersion, and skewness.
12. Explain the importance of probability to statistics
13. Explain and demonstrate the basic approaches to probability, to include: classical, empirical, and subjective probability.
14. Explain and demonstrate probability addition and multiplication, principles of counting, and contingency tables.
15. Explain and demonstrate binomial and poisson probability distributions.

16. Explain and demonstrate the standard normal probability distribution and the normal approximation to the binomial.
17. Explain and demonstrate the basic sampling methods and the central limit theorem.
18. Explain and demonstrate point estimates and confidence intervals for proportions.
19. Explain the importance of hypothesis testing.
20. Explain and demonstrate one-sample and two-sample tests of hypothesis using one-tailed and two-tailed test of significance.

(Students should refer to Instructor's Course Outline for specific accuracy level needed for completion.)

COURSE REQUIREMENTS:

- Students must meet the requirements of the NWCC attendance policy.
- Students must have a final average that is passing as defined by the grading scale listed in the Course Outline.
- Students must take the final exam.

METHODS OF INSTRUCTION:

The methods of instruction used for this course may include any or all of the following:

1. Lecture/Discussion
2. Chapter exercises and problem-solving
3. Outside assignments
4. Audio/visual materials
5. Independent and/or team projects

ASSESSMENT METHODS:

The assessment methods used for this course may include any or all of the following:

1. Unit Tests
2. Chapter Quizzes
3. Outside assignments
4. Comprehensive Exam

(The instructor will choose appropriate evaluation tools to measure student mastery of the course objectives. Students should refer to Instructor's Course Outline for type and number of specific evaluation tools.)

REQUIRED TEXTBOOKS:

E-Book Cengage Statistics for Business and Economics

REQUIRED EQUIPMENT/MATERIALS/SUPPLIES:

See the individual instructor's Course Outline for the specific equipment/materials/supplies to purchase.

GRADING SCALE:

NWCC does not have a standard grading scale for all classes. See the individual instructor's Course Outline for the specific grading scale used for this class.

DEPARTMENTAL POLICIES:

Individual instructors and specific programs may have policies and requirements in addition to those listed here. Any additional course information that is particular to a given teacher or program will be included in the Course Outline attached to this syllabus.

Note: The instructor reserves the right to make any necessary changes to the information provided in the syllabus and the course outline during the semester.

ACADEMIC INTEGRITY:

Upholding the highest standards of academic integrity means being honest, responsible, and ethical in all academic endeavors. Academic integrity promotes fairness, trust, and respect within the college community and ensures that earned grades and achievements reflect a student's true knowledge and abilities. Plagiarism is the presentation of another person's ideas, words, or work as one's own. Students are expected to cite sources correctly. Cheating involves any dishonest approach to earn academic credit. Some examples of cheating include copying from another person's test; possessing, giving, or receiving copies of an examination or exam questions without the permission of the instructor; using or displaying notes or other information or devices inappropriate to the test conditions; allowing someone other than the officially enrolled student to represent the student and/or complete coursework in any manner. Artificial Intelligence (AI) should not be used to complete course assignments (e.g., by entering exam questions or assignment questions, writing prompts, etc.). These tools should only be used with explicit and clear permission of each instructor and only in the ways the instructor allows. Students unsure of policies regarding AI tools are responsible for seeking clarification from the instructor. The unauthorized use of AI tools to complete course assignments violates academic integrity. Violations of academic integrity may result in disciplinary action. These actions may include but are not limited to, retaking an exam or resubmitting an assignment, receiving a 0 on an exam or assignment, or receiving an "F" for the course.

In cases related to academic integrity:

If an instructor determines that a student has violated our academic integrity policy, they will inform the student of the decision regarding disciplinary action. Each department has established procedures for investigating and adjudicating allegations of academic integrity, which could result in disciplinary action, including course dismissal.

APPEAL PROCEDURE:

Students who wish to appeal the decision of their instructor with regard to academic integrity should notify the Associate Vice President for Academic Instruction, Associate

Vice President of Workforce Solutions and Career-Technical Education, or Dean of the School of Health Sciences in writing within one (1) week of the formal decision by their instructor. The head of the appropriate school of instruction will, within a reasonable amount of time, convene an Ad Hoc Committee to hear the student's appeal and notify the student in writing of the hearing's date, time, and location. The Ad Hoc Committee will be chaired by the head of the appropriate school of instruction and may consist of up to two (2) faculty members, two (2) students, and the campus dean if applicable. The Committee will review all supporting documentation and hear from the accused student in person. The accused student may submit any documentation and present witnesses in his/her defense. The Committee will render a decision following the hearing, and the Committee's decision is final. If the head of the appropriate school of instruction is the instructor, then the Vice President of Instruction will serve in that place in the above procedure.

Northwest Mississippi Community College believes academic integrity is a cornerstone of student success and professional development. We encourage all students to uphold these principles and actively engage in building a community of trust and intellectual honesty.

ATTENDANCE POLICY:

Regular and punctual attendance at all scheduled classes is expected of all students and is regarded as integral to course credit. There are times, however, when students must miss class. Nevertheless, if a student has an excessive number of absences before the course withdrawal deadline, based on the MCCB allowed absences chart provided here. In that case, that student will be withdrawn from the class with a grade of "W." Online courses include additional information regarding class attendance in the instructor's Course Outline. This requirement is required for licensure obtainment and supersedes the NWCC attendance policy.

Please see the chart for the number of absences allowed for each class:

Number of Days Per Week Class Meet	16-Week Course (Campus Only) Traditional Fall/Spring	15-Week Course (Online Only) Traditional Fall/Spring	8-Week Course (Both) Mini-Term	4-Week Course (Both) Micro-Term
1	3	2	2	1
2	5	4	3	2
3	7	6	4	2
4	9	8	5	3
5	11	10	6	3

For On-Campus Classes: Students are expected to attend class promptly. Arriving more than 10 minutes late to class will be considered an absence. Three tardies will be counted as one absence.

For Online Classes: Students are expected to actively participate in weekly class assignments. Failure to attempt at least one graded assignment within a given week will be considered an absence.

Each course has specific policies regarding absences and makeup work, which will be outlined in writing at the beginning of the term. Students are responsible for adhering to these policies and completing missed assignments. If a student has concerns regarding their attendance record, they should first discuss the matter with their instructor.

Students removed from this course for exceeding the allowed absences may appeal this decision. The [Absence Appeal Form](#) and instructions can be found under the "Student" menu on the college website. The completed form must be submitted within three days of the official removal date.

ADDITIONAL POLICIES (COURSE OUTLINE):

Individual instructors and specific programs may have policies and requirements in addition to those listed here. Any additional course information that is particular to a given teacher or program will be included in the Course Outline attached to this syllabus.

Note: The instructor reserves the right to make any necessary changes to the information provided in the syllabus and the course outline during the semester.

GRADUATION:

Invest in your future by graduating! Earning a degree or certificate from Northwest will enhance your employability and increase your earning potential. Apply for graduation during the term you are enrolled in your final courses. The Graduation Application is under the Admissions tab on the college website.

COURSE EVALUATIONS:

Students are expected to complete their course evaluations by the due date stated in the course evaluation notification email.

STATEMENT OF AUTHORITY:

The instructor reserves the right to remove from the classroom any student whose conduct is disruptive to the learning process.

ACCESSIBILITY STATEMENT:

Northwest Mississippi Community College is committed to creating an inclusive and accessible learning environment for all students. If you have a disability that may require academic accommodations, please contact Disability Services Office (DSO) at your campus
Senatobia: 662-562-3309; DeSoto/Olive Branch/Ashland: 662-280-6193; or Lafayette-Yalobusha/Batesville: 662-238-7951.

DSO will work collaboratively with you to determine appropriate accommodations based on your documented needs. Students are responsible for discussing their approved accommodation letter with their instructors at the beginning of each semester.

Faculty are expected to provide reasonable accommodations as outlined in the student's Accommodation Letter from DSO. Course materials will be made available in accessible formats upon request, such as electronic text, alternative formats, and captions for multimedia.

Students are encouraged to contact DSO early in the semester to ensure timely implementation of accommodations.

AFFIRMATIVE ACTION:

Northwest Mississippi Community College does not discriminate on the basis of race, color, national origin, sex, disability, religion, gender identity, age, or status as a veteran or disabled veteran in all its programs and activities. Northwest Mississippi Community College prohibits sexual harassment and all forms of sexual violence, regardless of sex, gender identity or sexual orientation. The following have been designated to handle inquiries regarding non-discrimination policies: Americans with Disabilities Act of 1990/Section 504 of the Rehabilitation Act of 1973: Disability Support Services Coordinator, Tate Hall, P.O. Box 5555, 4975 Highway 51 North, Senatobia, MS 38668, telephone number 662-562-3309, e-mail address mkelsay@northwestms.edu; Title II of the Age Discrimination Act: Vice President for Finance and Administration, James P. McCormick Administration Building, P.O. Box 7017, 4975 Highway 51 North, Senatobia, MS 38668, telephone number 662-562-3216, e-mail address jhorton@northwestms.edu; Title IX of the Educational Amendments of 1972/Title VII of the Civil Rights Act of 1964: Vice President for Student Services and Enrollment Management, Tate Hall, P.O. Box 7010, 4975 Highway 51 North, Senatobia, MS 38668, telephone number 662-562-3409, e-mail address trush@northwestms.edu.

SAFETY STATEMENT:

The safety and security of students, faculty, and staff is very important to Northwest Mississippi Community College. A copy of the Annual Security Report, published annually by the Campus Police Department, details Northwest policies and procedures regarding campus safety. A copy of the report, which contains the annual crime statistics report, is available online in the current Northwest Bulletin (www.northwestms.edu/bulletin) or on the Northwest website (http://www.northwestms.edu/index.php/?page_id=989) and in printed form upon request from the Campus Police Office (662-562-3314).