

COURSE INFORMATION

Alternate Title: Introductory Statistics

Students taking Introductory Statistics display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. Algebra knowledge and foundational skills in mathematics are important for success in this course.

Instructional Level: A.A.S. - Associate in Applied Science

Credits: 3

1 Trimester

Types of Instruction:

- 3 Cr: Lecture

Prerequisite: High School Junior or Senior; three years of high school math

CLASS INFORMATION

Meeting Times: In Person

SUPPLIES

- e-text: Bluman, Allan. *Elementary Statistics: A Step-by-Step Approach* Edition: 9th.
- ALEKS access
- Graphing calculator, TI-84 Plus or similar model recommended. Ensure the calculator has statistics capabilities.
Cell phones and computers are not allowed as calculators.
- Pencils and a notebook for practice of problems and note taking

TEXTBOOKS

Bluman, Allan. *Elementary Statistics: A Step-by-Step Approach*. McGraw Hill. 2013. Edition: 9th. Supplied.

COURSE COMPETENCIES

1. Organize data
2. Summarize data numerically
3. Use probability distributions

4. Investigate study design
5. Draw inference about population parameters from sample data from one population
6. Draw inference about population parameters from sample data from two or more populations
7. Evaluate correlation and linear regression in bi-variate data

EMPLOYABILITY SKILLS

Communicate effectively

GENERAL EDUCATION OUTCOMES

Intellectual Acquisition of Knowledge: Demonstrate critical and ethical reasoning

Communication: Demonstrate effective communication in diverse contexts using appropriate methods.

Problem Solving: Use mathematical and scientific problem-solving processes.

Personal and Social Awareness: Demonstrate knowledge of life skills required of an effective member of a diverse and global community.

GRADING INFORMATION

General Education & Liberal Arts Grading Scale

94-100	A
90-93.9	A-
87-89.9	B+
83-86.9	B
80-82.9	B-
77-79.9	C+
73-76.9	C
70-72.9	C-
67-69.9	D+
63-66.9	D
60-62.9	D-
Below 60	F

Your course grade will be based on a weighted average:

70% 8 exams

10% ALEKS Mastery Grade

10% Participation (will be determined by in-person participation)

10% Progress Milestone Points

The ALEKS Math program scores exams immediately upon submission. Grades will be automatically transferred and posted. If you feel the grade you earned is inaccurate or have any questions about the grade, it is your responsibility to address this with me within one week of the grade being posted.

All coursework must be completed to successfully finish the course.

Homework

Homework will be completed via the ALEKS software. **ALEKS Math is your homework.** The purpose of the homework is to give students the practice and repetition necessary to become competent in statistical concepts. It is essential that you complete the homework on a timely basis and ask questions when necessary.

You need to learn 80% of the topics within each module prior to taking the practice assignment. You must earn at least 70% on the practice assignment to be eligible for the corresponding exam. The course calendar provides a detailed account of each module due date.

If you struggle on the homework, you have many options available to you for help. ALEKS has many built-in tools to help you, there are video examples within ALEKS for you to access, or of course you can ask your instructor.

ALEKS keeps track of how many hours you are logged in the program. You will be able to see how many hours you have logged, **as will I**. Course content learned through consistent practice in small amounts of time will be better learned for future coursework and understanding of material. In other words, you must practice to become proficient with the mathematical concepts.

All homework must be completed on time to take the corresponding exam and earn the progress milestone points for the unit.

Exams

There will be an exam after the completion of the module pre-requisites. You are expected to take each exam at the scheduled time. T

- You will take the exams during one class period, as indicated on the course calendar. At the end of the exam, I will collect scratch work and award partial credit where applicable.
- There will be no extensions. Exams will be scheduled within ALEKS.
- **No penalty is assessed for taking an exam early**. Thus, if you know you will be missing an exam, it is in your best interest to take it early.

DUAL CREDIT NOTIFICATION

The course outcomes, grading scale, and expectations for high school students enrolled in this course are identical to that which students at Mid-State Technical College will experience. High school students taking this course will have the same level of rigor and be awarded the same credits as college students.

01. BASIC NEEDS

It is hard to learn if you have physical health, mental health, or economic needs that are going unmet. Mid-State has resources that can help. If you have a need, please feel free to share that with me and I can connect you with available resources at Mid-State. If you don't feel comfortable sharing with me, please talk to your advisor or another Mid-State employee. We all work together to help ensure that you have what you need to be successful.

02. NO-SHOW POLICY

The No-Show Policy is instituted during the first week of classes each term. Faculty identify students who are appearing on their class rosters but not attending (in-person classes) or participating in an academically related activity (online classes). These students are referred to as No Show students. An attempt will be made to contact No Show students to determine if they will be attending classes. Classes will be dropped with all tuition charges removed for those students who will not be attending or who were unable to be contacted. Students who have received financial aid and failed to

attend classes have not established eligibility to receive financial aid. Therefore, No Show students must repay in full any funds received. Besides complying with federal financial aid regulation, the No Show Policy also helps prevent students from accruing unwanted balances and possible collection activity as well as receiving final grades of “F” on their permanent records.

03. 24/7 HELP DESK & STUDENT SUPPORT

Technical Support: 24/7 Help Desk support includes Blackboard, computer hardware & software, email, lab & classroom equipment, Microsoft applications, MyMSTC, and network access <https://www.mstc.edu/technology/help-desk> On Campus: Dial ext. #5555 Off Campus: Dial [877.4MY.MSTC](tel:877.4MY.MSTC) (877.469.6782)

Classroom Questions: Reach out to your instructor to ask any questions about the information, competencies, or policies of the class.

Tutoring & Coursework Support: *Brainfuse* provides free 24/7 math and writing online tutoring services to all Mid-State Technical College students. Students log in to *Brainfuse* on Blackboard to submit a paper for expert constructive feedback delivered to their email within 24 hours or connect with a live tutor for immediate assistance. Other subject area tutors are available with limited hours; check the *Brainfuse* schedule for availability. Students can also check out tutoring services provided in the *LiNK* on each campus. Students can get assistance with general academic tasks, instruction in note-taking, summarizing, reference skills, and time management. Students can also brush up on basic reading, writing, and math skills needed to be successful in their program. Mid-State offers several approaches to tutoring to ensure that students have options that fit their learning needs including tutor labs, peer tutoring, and small tutor groups. Tutoring services are no cost to currently registered students. To arrange tutoring, visit the *LiNK* at any campus.

Personal Support: If you are having difficulty completing your courses due to physical, emotional, or financial needs, please reach out to your instructor or your academic advisor. There are many resources available to assist students.

04. ACADEMIC INTEGRITY POLICY

The Mid-State Board, administration, faculty and staff believe that academic honesty and integrity are fundamental to the mission of higher education. All students are expected to maintain and promote the highest standards of personal honesty and professional integrity. These standards apply to all examinations, assigned work and projects. Therefore, a student who is found to have been dishonest, fraudulent or deceptive in the completion of work or willing to help others to be so, or who is found to have plagiarized (presented the work of others as his or her own) is subject to disciplinary action up to and including suspension.

05. ACADEMIC FREEDOM POLICY

Mid-State Technical College is committed to upholding and preserving principles of academic freedom. The College affirms the vital role of diverse perspectives in its mission to transform lives through the power of teaching and learning. Employees and students share responsibility for fostering a climate that is favorable to the free exchange of ideas. Freedom of speech and expression extends to all members of the academic community. The principles of academic freedom protect freedom of inquiry and research, freedom of teaching, and freedom of expression and publication. Faculty are entitled to freedom in discussing their subject including discussing controversial matters related to their academic assignment or subject in a neutral way to represent diversity of thought.

06. ADULT LEARNER & STUDENT EFFORT EXPECTATIONS

You are an adult learner and are responsible for your own learning. No one else can be a "stand in" for you in the learning process. You are held accountable for all assigned activities and assessments. You will have an opportunity to share your unique ideas and experiences with your student peers and instructor. The quality and depth of your participation will determine the level of achievement, satisfaction, and enjoyment that you experience. You have an obligation to meet deadlines for completing assignments and postings.

You are expected to put forth extra effort outside of class to be successful. This includes reading, studying, completing assignments and projects, and asking for assistance from tutors or instructors as needed. The amount of time needed varies from student to student and course to course. The Wisconsin Technical College System has set forth the following guidelines:

Associate Degree Courses

- Mostly Lecture/Classroom/Online--2 hours of effort for every hour of class
- Labs--30 minutes of effort for every hour of class
- Clinical/Salon/Internship/Apprenticeship--student expectations are set by the instructor and the industry and will be communicated at the start of the course

Technical Diploma Courses

- Mostly Lecture/Classroom/Online--30 minutes of effort for every hour of class
- Labs--30 minutes of effort for every hour of class
- Clinical/Salon/Internship/Apprenticeship--student expectations are set by the instructor and the industry and will be communicated at the start of the course

07. NON-DISCRIMINATION POLICY

It is Mid-State's policy to not discriminate on the basis of race, color, creed, national origin, ancestry, disability, pregnancy, marital or parental status, religion, gender, age, arrest or conviction record, political affiliation, sexual orientation, and service in the armed forces. This policy applies to Mid-State's services, employment programs, and/or its educational programs and activities, including but not limited to admissions, treatment, and access.

Mid-State Technical College provides reasonable accommodations to assist persons with disabilities to access or participate in its programs or activities. Persons who wish to request assistance or reasonable accommodations should contact Student Services at 715.422.5445 or for individuals who are hearing impaired use the Wisconsin Relay Service number: 711

08. COLLEGE-WIDE CLASS CANCELLATIONS

School will be cancelled as usual.

09. SYLLABUS AND SCHEDULE MODIFICATIONS

While every attempt is made to follow the syllabus and schedule as planned at the beginning of the term, the instructor reserves the right to modify this syllabus as needed throughout the length of the course. Updates to the syllabus and schedule will be announced in class and/or posted in Blackboard for students to reference.

10. DISABILITY SERVICES

If you know you have a recognized disability or suspect that you might have one, please contact the Disability Services Coordinator. They will work with you to find suitable accommodations to assist you with your learning. The college is committed to ensuring each student has the tools needed to be successful. While course standards cannot be lowered, various kinds of accommodations can be utilized to reach those standards. Adequate and reasonable time will be required to develop appropriate accommodations, so meeting with the Disability Services Coordinator as early as possible is recommended. If eligible, accommodations would be in effect from date they are approved and would not apply to coursework previously completed. Please contact Disability Services as soon as possible.

11. PREGNANT & PARENTING STUDENTS

Title IX of the Education Amendments of 1972 prohibits discrimination based on pregnancy, childbirth, false pregnancy, termination of pregnancy, or recovery from any of these conditions and requires an educational institution to excuse a student's absences because of pregnancy and related conditions for as long as the student's doctor deems them medically necessary (34. C.F. R § 106.40(b)). Additionally, Title IX prohibits discrimination based on parental status (34. C.F. R. § 106.40(a)). Accommodations are not retroactive, and adequate and reasonable time will be required to develop appropriate accommodations with your instructors, so [contact Disability Services](#) as soon as possible if you or your partner are pregnant. <https://www.mstc.edu/form/contact-patti-lloyd>

12. COLLEGE RESOURCES

Student success is the primary goal of all instructors at Mid-State Technical College. The college has an extensive list of resources and services available to assist all students with academic, personal, and career goals while they are enrolled at Mid-State. [Click Here](#) or go to <https://www.mstc.edu/about-us/policies> to familiarize yourself with information on Mid-State resources and policies such as:

Campus Safety & Security <https://www.mstc.edu/about-us/policies/right-to-know>

Complaints and Appeals <https://www.mstc.edu/about-us/policies/complaint-procedure>

Disability Services <https://www.mstc.edu/student-services/disability-services>

Incident Reporting <https://www.mstc.edu/form/incident-report-form>

Incomplete Grades <https://www.mstc.edu/sites/default/files/2020-08/202021MidStateStudentHandbook.pdf>

Resume and Career Services <https://www.mstc.edu/student-services/career-services>

Student Code of Conduct https://www.mstc.edu/sites/default/files/2019-01/StudentCodeofConduct_2.pdf

Title IX Pregnant/Parenting students <https://www.mstc.edu/about-us/policies/pregnant-and-parenting-students>

Tuition Refunds <https://www.mstc.edu/about-us/policies/wtcs-refund>