Course Description: An introduction to descriptive statistics and statistical inference for technical managers. Topics include sampling techniques, estimation, hypothesis testing, Chi-Square, and simple regression.

Students Learning Outcomes and Core Competencies:

This course will achieve the following general student learning outcomes for the Organizational Management program:

- Solve complex management problems utilizing critical thinking, research methodology, and problem solving techniques.
- Assess the effects of the cultural, political, legal, technological, and economic forces that shape the global environment.
- Apply oral, written, and electronic communication skills to effectively present and exchange information, including the use of management information systems, the internet and other applications to prepare and present reports.
- Manage project planning and implementation.
- Work effectively in a team-centered environment to accomplish shared goals and objectives.

This course is an upper division course for students that have met the admission requirements for upper division courses. This course is designed to investigate the broad spectrum of business and economic statistics issues that managers face today and will face in the future.

The basic principles and concepts of business and economic statistics and will be presented in the lectures and class discussions. This course uses the problem solving and analysis skills as the focus of learning. Problem solving is the basis of student exercises that involve the student in the thought process for business and life.

This course will transfer to most four-year institutions in Texas.

Prerequisite: None

Text, References, and Supplies:

To be determined by the Instructor of record

Course Goals/ Objectives:

Upon successful completion of the course the student will be able to:

1. Explain, calculate and interpret descriptive statistics including: basic terminology, scales, notation, frequency distributions, measures of central tendency, measures of dispersion, and the normal distribution.
2. Read and analyze basic charts and graphs, contingency tables, and computer results;
3. Explain, calculate, and interpret inferential statistics including probability, and hypothesis
tests.
4. Identify and apply the correct statistical technique to the research question;
5. Understand that statistics are value neutral, but can be used to support discriminatory and biased value positions.
6. Use computer technology to compute descriptive and inferential statistics.

Student Contribution Responsibilities and Class Policies:

This course will require you to devote a considerable amount of time, energy, and commitment. You will be responsible for reading the assigned material and being able to solve the homework problems. It is expected that all students will actively participate in the learning process by attending all classes, reading the assigned text materials prior to class, and doing homework problems in a timely fashion. Any student who may require special assistance in meeting the requirements of this class is expected to make these needs known immediately to the instructor.

Each student is expected to study at least six hours per week preparing for class, take an active role in lecture/discussion, meet assignment due dates, and conduct themselves in a businesslike manner in the class. Students are expected to exhibit professional behavior during scheduled class times. Professional behavior includes, but is not limited to, the following:

1. Complies with the rules of Midland College
2. Attends class regularly (no more than two absences; 3 points will be deducted for each class missed)
3. Is punctual
4. Exhibits cooperative behavior in class
5. Ear phones, cell phones, and beepers are not acceptable in class
6. Is dressed appropriately
7. Takes all tests on the scheduled dates.
8. Gives the instructor advanced notice when leaving class early

If it becomes necessary for a student to miss a scheduled class time, it will be the student’s responsibility to contact the instructor during scheduled office hours in order to receive missed assignments.

Missed Exams: If a student is absent on a scheduled exam day, he/she may schedule the make-up exam (only one is allowed) with the professor. Make-up exams will be taken in the accounting lab.

Evaluation of Students:
Performance will be measured by student testing and class participation as follows:

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<th>Tests/Cases</th>
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<th>Semester course grade is determined as follows:</th>
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<td>Test 1</td>
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<td>Test 2</td>
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<td>Test 3</td>
<td>110</td>
<td>280-319</td>
<td>C</td>
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<td>Final exam</td>
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<td>240-279</td>
<td>D</td>
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<td>Total</td>
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To succeed in this course:

First, stay current with the class; if you let yourself get behind, the degree of difficulty increases rapidly.

Second, do not expect to master the material on the first attempt. It takes a while for these concepts and ideas to take hold. Expect to read the material and work the problems more than once. Work in small time increments; you will learn more in one hour a day for three consecutive days than a three hour stretch on a single day.

Third, start your assignments early to allow a cushion for frustration. The content of this course is much more difficult when you are tired and frustrated. Almost always you can get past the place where you are stuck faster if you can put it down and come back to it later; but in order to do this, you have to allow yourself time to come back to it later.

Fourth, when you are stuck, try to explain to someone else what you are trying to do. This can often help you identify for yourself the problem you are having. Often the step we are missing is easily obvious to someone who is not trying to solve the problem.

Course Schedule: This class meets for 3 lecture hours per week. A detailed day to day schedule and class assignment will be provided at the beginning of the semester.

Required Participation For Online/Hybrid classes, students MUST actively participate by completing an academic assignment by the official census date. Students who do not do so, will be dropped from the course.

Attendance Policy: Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity will be reported as never attended and dropped from the course.

Withdrawal Policy: Requests for withdrawal must be made using the College's accepted withdrawal methods. Students must complete an official withdrawal form either in person in the Student Services office, online or by written request. Midland College reserves the right to decline approval of a withdrawal request for any reason. Such reasons may include, but are not limited to: submitting incomplete information on the request, not submitting current contact information for the student, not resolving any questions concerning the authenticity of the document, disciplinary actions, outstanding debts, TSI liability, etc.

Students who withdraw and have outstanding debts in any area of the College will not be given clearance to re-enroll until these debts are paid. Students who receive warning notices concerning non-attendance may complete the withdrawal request portion of the notice and return it to Student Services. TSI Liable students must meet with Dean of Adult or Developmental Education before withdrawing from TSI classes.
The last day for withdrawal for each registration period is published in the catalog and the current course schedule. Online withdrawal requests must be made on or prior to the dates listed.

**Scholastic Dishonesty & Academic Misconduct**
Academic dishonesty includes cheating, fabrication, plagiarism, and facilitating academic dishonesty. Disciplinary options include, but are not limited to, suspension and dismissal. (See the Midland College Student Handbook for a complete explanation of college policy).
http://www.midland.edu/students/academics/academic_misconduct/plagiarism.php

**AMERICANS WITH DISABILITIES ACT (ADA):** Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact Shep Grinnan as soon as possible. Mr. Grinnan’s office is located in the Scharbauer Student Center Building. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations/documentation.

**Instructor Information:**
**Instructor Name:**
**Office:**
**Phone:**
**Email**
**Office Hours:**
*Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor’s availability at a specific time.*

**Division Information**
Division Dean: Dr. Kennedy
Program or Department Chair: Doug Johnson
Division Secretary: Angelina Dolaptchieva
MHA176 432-685-6813
TC 116 432-685-4665
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