

University of South Dakota
Stat 281 – Introduction to Statistics – Online
Spring 2020 Session

STAT 281 **Introduction to Statistics - 3 Credit Hours**
Time: Monday, January 13, 2020 – Friday, May 8, 2020
Instructor: Kristen Maxon
Email: Kristen.Maxon@usd.edu
Phone: meetings by request
Office Hours: Meetings set up by appointment any day Mon-Fri;
 Also can contact me via e-mail anytime

Course Description

A study of descriptive statistics including graphs, measures of central tendency and variability and an introduction to probability theory, sampling and techniques of statistical inference with an emphasis on statistical applications.

Important Dates

Wednesday, Jan 22, 2020 is the last day to drop with a full refund.

Also, **if you are not logged into MyStatLab by 9am on Jan 22, you will be dropped from the course.**

Monday, April 6, 2020 is the last day to withdraw with a “WD” on your transcript.

Textbook

Course will be using MyStatLab—you subscription is INCLUDED in your tuition. Please use the MyStatLab Registration Instructions document posted in our D2L site for instructions on logging into MyStatLab as well as the access code and the course id. MyStatLab will include an e-copy of your textbook.

OPTIONAL text: If you prefer to also have a hard copy of the textbook, that information is:

Elementary Statistics
Larson/Farber, 7th Edition
Pearson Publisher
ISBN 0-13-468341-2

Calculator

A scientific calculator with exponents is necessary for this course. Graphing calculators (such as TI-82 and above or equivalent in another brand) are NOT ALLOWED ON EXAMS. Students will also not be allowed to use cell phones, calculators that do symbolic manipulation (such as the TI-89 or TI-92), or personal digital assistants (such as Palms) on any exam.

GOAL #5: Students will understand and apply fundamental mathematical processes and reasoning.

Student Learning Outcomes: As a result of taking courses meeting this goal, students will:

| Learning Outcomes: | Assessment |
|---|--|
| 1. Use mathematical symbols and mathematical structure to model and solve real world problems | Homework, quizzes, and 4 chapter exams along with a comprehensive final. |
| 2. Demonstrate appropriate communication skills related to mathematical terms and concepts | Homework, quizzes, and 4 chapter exams along with a comprehensive final. |
| 3. Demonstrate the correct use of quantifiable measurements of real world situations | Homework, quizzes and 4 chapter exams along with a comprehensive final. |
| Each course meeting this goal includes the following student learning outcomes: Required: #1, #2, and # 3. Credit Hours: 3 hours | |

Evaluation Procedures:

Homework Assignments: I firmly believe the only way to learn mathematics is to practice the material.

Homework problems are integral in your mastery of the material.

- **MyStatLab assignments** Homework will be assigned over required sections and must be completed on MyStatLab, the program which you must have access to—your subscription is INCLUDED in your tuition and I will have the access code and course ID posted in our D2L site along with instructions. I have also typed up lecture guides in D2L that accompany recorded lectures for each section we are going to go over in this course. It is suggested you watch the lecture video in D2L and fill out the lecture guide for a particular section before attempting the homework for that section, as that can save a lot of stress and confusion over the material being presented. The MyStatLab system provides instantaneous feedback, step-by-step examples, and streaming video instruction. You must complete all of the chapter homework assignments before you are allowed to take the quiz over those sections. **You may reenter a homework assignment after its due date to improve your score, but a homework assignment submitted after the due date will have a late submission penalty of 3% applied.** If you have used up your attempts, click on the “Similar Exercise” button to receive a new problem that you can solve to receive credit. There are **no** extensions of due dates on homework assessments, so please do **not** ask. **Homework not attempted by 5:00 PM CT, Friday, May 8 will receive a zero score.**

Quizzes: Quizzes will be completed online within MyStatLab. To complete a quiz, you must first complete the homework on MyStatLab associated with that quiz. There are a total of 10 quizzes—one for each chapter.

Please note that each quiz has a required due date and are due by 11:59pm CENTRAL time on that date.

In addition, all quizzes can only be completed after you have worked on the homework prior to the quiz, so plan ahead to avoid not being able to complete a quiz on time. For the Chapter 1 and Chapter 2 quizzes, three attempts will be allowed to give you the opportunity to familiarize yourself with the program. For chapters 3-10, only two attempts will be allowed. The program will only use your highest score when calculating your overall grade.

Each student will be allowed ONE make-up quiz, after which all incomplete quiz grades will become zeros.

Please e-mail me if you wish to use your make-up quiz so I can adjust any necessary due dates.

Exams: The following guidelines must be followed with respect to exams in this course.

- Each exam must be taken before or on the date specified in the course outline. **If you do not take the test within the specified days, you will receive a score of 0% for that exam. If there is a documented emergency and I choose to allow a late exam, your exam grade will be reduced 10% each business day it is late and will no longer be accepted more than one week late. You must have a valid reason for taking an exam late and contact me for permission ahead of time and it is at my discretion whether to allow a late exam. Please plan to take exams ahead of the due date in case there are any last minute emergencies or technical difficulties.**
- There is a 3 hour time limit on regular exams and they must be completed by the deadline and during your proctor’s open hours. (Regular exams should only take about one hour, but you are allowed up to 3 hours.) There is a 4 hour time limit on the Final Exam. (The Final should take approximately 2 hours, but you are allowed up to 4 hours).
- **You are required to take your unit exams and Final Exam in the presence of an approved proctor. There are absolutely no exceptions to this rule. You MUST SET UP YOUR PROCTOR at the very start of the semester. Please e-mail me if you have any questions about this process.**
- **Your proctor will be required to sign a certificate attesting that you took the exam in his/her presence. Please remind your proctor to send in all of your testing paperwork (including your scratch paper) to the USD Testing Center as listed in their instructions.** Failure to verify your proctor’s signature may result in a zero on the exam, so please make sure this is done for each exam.
- Since all exams must be taken in the presence of an approved proctor, all students must have a proctor. The proctor form can be found on the homepage of D2L for this course, or at <http://www.usd.edu/usd-online/courses> EVERY student not using an approved testing center MUST fill out this form and send it to the Continuing Education at the address (or fax number). If you are using an approved testing center, you must e-mail the USD testing center to let them know which one you will be using.

- You will not be allowed to use cell phones, books or notes while taking the exams and your proctor may not give you any assistance in working the problems. Since exams are online, you will also be blocked from opening any other sites while taking the exam.
- Tests are online using MyStatLab, but are password protected and will not open after the due dates specified for the exams.
- It is your responsibility to make sure your proctor site has appropriate internet access and has downloaded any necessary programs to run the MyStatLab exams. MyStatLab has its own lockdown browser that will be used for each exam. When you log into the exam, it will automatically put you in the lockdown browser. If your proctor site has not used it before, the program might prompt you to download any necessary files to use this lockdown browser. You will want to verify this well ahead of time and perhaps allow time when you go to take your first exam for any of this downloading that may be necessary.
- After verifying your proctor, the USD Testing Center staff will email the passwords to your proctor for each exam as well as any other formula sheets or tables that you will be allowed to use on the exam. It is your responsibility to contact your proctor to see if your password and testing materials have arrived. Your proctor will sign a certificate attesting that you took the exam in his/her presence.
- Your proctor must mail or e-mail the scratch paper, formula sheet, tables, and any other paperwork back to the USD Testing Center.
- Your exams will be corrected immediately by MyStatLab but you will not be able to review them until after the due date of the exam. I also review each exam after the due date and make any adjustments I find necessary, so your grade might change slightly.
- You will be notified online of your grade in MyStatLab—you can find it under the gradebook tab on the left side of the screen in MyStatLab.
- The comprehensive final exam will cover all of the material from the semester and will account for 20% of your final grade. **The final exam is scheduled for the last week of class and MUST be completed no later than 5pm CST on Friday, May 8, 2020.** Students will not be allowed to take the final exam after the time allotted. The final exam is also administered using MyStatLab, so make sure you have internet access with the appropriate downloaded programs at your testing site. Please do not wait until the last minute to take the final exam since there are no late exams allowed.

Grading

Your grade will be assigned according to the following guidelines:

| Grading Opportunities | Weight |
|--------------------------|--------|
| Homework for 10 chapters | 10 % |
| 10 Quizzes | 20 % |
| 4 Exams | 50 % |
| Comprehensive Final Exam | 20 % |
| Total for course | 100 % |

| Letter Grade | Percent Range |
|--------------|---------------|
| A | 90% – 100% |
| B | 80% - 89% |
| C | 70% - 79% |
| D | 60% - 69% |
| F | 0% - 59% |

*Note: all current grades can be found in MyStatLab under the gradebook tab.

Expectations of Students:

- ❖ Check D2L daily for messages, assignments, viewing lectures, etc.
- ❖ Utilize USD email or D2L email to contact me personally.
- ❖ Use the discussion board to post questions on class content and procedures.
- ❖ Be logged into MyStatLab as soon as possible, using the access code and course id provided in D2L.
- ❖ Students **not logged in to MyStatLab by 9am on Jan 22** will be dropped from the course.
- ❖ Be prepared by keeping up with MyStatLab quizzes and reviewing posted class notes.
- ❖ Complete all assignments on time. This is not a self-paced course. Meet all deadlines.
- ❖ Take responsibility for one's learning. I can teach you the material however it is ultimately up to you as to how well you learn it.
- ❖ Although it may vary from student-to-student, expect to spend at least 9 hours per week preparing for this class.

- ❖ Show enthusiasm and interest in the subject matter.
- ❖ Show respect for all others in the course.
- ❖ Use proper email and chat etiquette when posting in D2L.

Expectations of the Instructor:

- ❖ Show enthusiasm for teaching and mathematics.
- ❖ Encourage students to develop good study habits.
- ❖ Be available to answer student questions. You will be able to email me questions at any time.
- ❖ I can meet with you online for you to ask questions live—just e-mail me so we can set up a time.
- ❖ Prompt replies to emails (I will reply within 24 hours during weekdays and 48 hours on weekends/holidays).
- ❖ Post notes and recorded lectures for each section you have to cover as part of this class.
- ❖ Sincerity, honesty, and fairness in all aspects of this course

Other Policies

Attendance Policy

Regular participation in this course is expected and necessary for you to be successful. If you do not participate in the course and do not respond to my communication attempts for more than three weeks, you may be dropped from the course or failed if the last date to drop has passed.

University and Department Statements

ACADEMIC INTEGRITY: The College of Arts and Sciences considers plagiarism, cheating, and other forms of academic dishonesty inimical to the objectives of higher education. The College supports the imposition of penalties on students who engage in academic dishonesty, as defined in the “Conduct” section of the University of South Dakota Student Handbook. No credit can be given for a dishonest assignment. A student found to have engaged in any form of academic dishonesty may, at the discretion of the instructor, be:

- a. Given a zero for that assignment;
- b. Allowed to rewrite and resubmit the assignment for credit;
- c. Assigned a reduced grade for the course;
- d. Dropped from the course; or
- e. Failed in the course.

DISABILITY ACCOMMODATION: Any student who feels s/he may need academic accommodations or access accommodations based on the impact of a documented disability should contact and register with Disability Services during the first week of class or as soon as possible after the diagnosis of a disability. Disability Services is the official office to assist students through the process of disability verification and coordination of appropriate and reasonable accommodations. Students currently registered with Disability Services must obtain a new accommodation memo each semester.

Please note: if your home institution is not the University of South Dakota but one of the other South Dakota Board of Regents institutions (e.g., SDSU, SDSMT, BHSU, NSU, DSU), you should work with the disability services coordinator at your home institution.

Disability Services, Service Center North, R119B; (605) 677-6389
Web Site: www.usd.edu/ds E-mail: disabilityservices@usd.edu

Accessibility Statement: The University of South Dakota strives to ensure that physical resources, as well as information and communication technologies, are accessible to users in order to provide equal access to all. If you encounter any accessibility issues, you are encouraged to immediately contact the instructor of the course and the Office of Disability Services, which will work to resolve the issue as quickly as possible.

DIVERSITY AND INCLUSIVE EXCELLENCE: The University of South Dakota strives to foster a globally inclusive learning environment where opportunities are provided for diversity to be recognized and respected. To learn more about USD’s diversity and inclusiveness initiatives, please visit the website for the Office of Diversity.

FREEDOM IN LEARNING: Under Board of Regents and University policy, student academic performance may be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students should be free to take reasoned exception to the data or views offered in any course of study and to reserve judgment

about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Students who believe that an academic evaluation reflects prejudiced or capricious consideration of student opinions or conduct unrelated to academic standards should contact the dean of the college or school that offers the class to initiate a review of the evaluation.

CELL PHONE STATEMENT: Cell phone use during quizzes and exams is not permissible. If a cell phone is out, the default assumption is that it was intended for cheating purposes and the academic misconduct process will be initiated.

Course Outline

| MONTH | DATE | SECTIONS DUE THIS WEEK | QUIZZES DUE | EXAMS |
|-------|------|------------------------|---|--------------------|
| Jan | 13 | | *All due dates signify that the assignment is due by 11:59pm on that day. Homework has a 3% grade penalty for late submissions. Quizzes and Exams cannot be taken late. | |
| | 14 | Section 1.1 HW due | | |
| | 15 | Section 1.2 HW due | | |
| | 16 | | | |
| | 17 | Section 1.3 HW due | | |
| | 18 | | Ch. 1 Quiz due | |
| | 20 | HOLIDAY | | |
| | 21 | Section 2.1 HW due | | |
| | 22 | **Last day to add/drop | | |
| | 23 | Section 2.2 HW due | | |
| | 24 | | | |
| | 25 | Section 2.3 HW due | | |
| | 27 | Section 2.4 HW due | | |
| | 28 | | | |
| | 29 | Section 2.5 HW due | | |
| | 30 | | Chapter 2 Quiz due | |
| | 31 | | | Exam #1 due |
| Feb | 1 | | | |
| | 3 | Section 3.1 HW due | | |
| | 4 | | | |
| | 5 | Section 3.2 HW due | | |
| | 6 | | | |
| | 7 | Section 3.3 HW due | | |
| | 8 | | | |
| | 10 | Section 3.4 HW due | | |
| | 11 | | Chapter 3 Quiz due | |
| | 12 | | | |
| | 13 | Section 4.1 HW due | | |
| | 14 | | | |
| | 15 | Section 4.2 HW due | | |
| | 17 | HOLIDAY | | |
| | 18 | Section 4.3 HW due | | |
| | 19 | | Chapter 4 Quiz due | |
| | 20 | | | Exam #2 due |

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|-----|------|---------------------------------------|--------------------|--------------------|
| | 21 | | | |
| | 22 | Section 5.1 HW due | | |
| | 24 | Section 5.2 HW due | | |
| | 25 | | | |
| | 26 | Section 5.3 HW due | | |
| | 27 | | | |
| | 28 | Section 5.4 HW due (SKIP Section 5.5) | | |
| | 29 | | Chapter 5 Quiz due | |
| Mar | 2 | | | |
| | 3 | Section 6.1 HW due | | |
| | 4 | | | |
| | 5 | Section 6.2 HW due | | |
| | 6 | | | |
| | 7 | Section 6.3 HW due | | |
| | 9-15 | SPRING BREAK | | |
| | 16 | Section 6.4 HW due | <i>*Midterm*</i> | |
| | 17 | | Chapter 6 Quiz due | |
| | 18 | | | Exam #3 due |
| | 19 | | | |
| | 20 | Section 7.1 HW due | | |
| | 21 | | | |
| | 23 | Section 7.2 HW due | | |
| | 24 | | | |
| | 25 | Section 7.3 HW due | | |
| | 26 | | | |
| | 27 | Section 7.4 HW due | | |
| | 28 | | | |
| | 30 | Section 7.5 HW due | | |
| | 31 | | Chapter 7 Quiz due | |
| Apr | 1 | | | |
| | 2 | Section 8.1 HW due | | |
| | 3 | | | |
| | 4 | Section 8.2 HW due | | |
| | 6 | <i>**Last day to drop with "WD"</i> | | |
| | 7 | Section 8.3 HW due | | |
| | 8 | | | |
| | 9 | Section 8.4 HW due | | |
| | 10 | HOLIDAY | | |
| | 11 | | | |
| | 13 | | | |
| | 14 | | Chapter 8 Quiz due | |
| | 15 | | | Exam #4 due |

| | | | | |
|-----|----|--|---------------------|--|
| | 16 | | | |
| | 17 | Section 10.1 HW due | | |
| | 18 | | | |
| | 20 | Section 10.2 HW due | | |
| | 21 | | | |
| | 22 | Section 10.3 HW due | | |
| | 23 | | | |
| | 24 | Section 10.4 HW due | | |
| | 25 | | Chapter 10 Quiz due | |
| | 27 | Section 9.1 HW due | | |
| | 28 | | | |
| | 29 | Section 9.2 HW due | | |
| | 30 | | Chapter 9 Quiz due | |
| May | 1 | | | |
| | 2 | *no exam over 9&10, but on final | | |
| | 4 | Final Exam: must be completed before 5pm on 05/08 (no extensions allowed for any reason!) | | FINAL (over all sections) must be taken by 5pm on 05/08/2020! |
| | 5 | | | |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |