**Spring 2021     Elementary Statistics     CRN: 28071     STAT 1401**

Class meets on Thursdays 11:00-12:15 P.M. in HTHSAF room 218

**Instructor:** Dr. William Brian Muse

**Office:** 218 University Hall    **Office Hours:** online by appointment  
**Email:** [Muse\_William@columbusstate.edu](mailto:Muse_William@columbusstate.edu)

**Required Online Learning Platform:** Use Class Key: **colstate 2796 3141** to register on [www.webassign.net](http://www.webassign.net)

The current cost directly through WebAssign is $37.95. The textbook and WebAssign access will also be available for purchase in the CSU Bookstore.

**Textbook:** Introductory Statistics, Illowsky and Dean, De Anza College included with WebAssign also available on <https://openstax.org>

**Course Outline:** Sections: 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 4.1, 4.2, 4.3, 6.1, 6.2, 7.1, 7.2, 7.3, 8.1, 8.2, 8.3, 9.1, 9.2, 9.3, 9.4, 9.5, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6

**Course Description:** This is a non-calculus based introduction to statistics. Course content includes descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistical topics.

**Prerequisite:** none

**Homework and Exams:** will be assigned, and graded online using WebAssign.

**Technology** will be required to perform calculations in Homework and Exams. The textbook provides step by step instructions for TI-84 or TI-83 calculator. TI-83 calculators are available to rent for $10 plus a $30 refundable deposit from the Mathematics Department in University Hall room 238. Many free online alternatives are also available. Some can be found in the online statistics calculator list under CougarView Contents. Chapter video lectures may be found in WebAssign under Resources and at the following website: <https://www.youtube.com/playlist?list=PLdJflgFyOpunN58JDYKxoP2KJKguEhKhR>

**Assessment:** The 27 homework assignments will make up 27% of the course grade and the 10 exams will make up 73% of the course grade. You should expect to spend at least 3 hours per assignment. Prior to the due date of each homework assignment, you will have an unlimited number of tries on each question. For each exam, you will have one try for each multiple choice question and two tries for each fill in the blank question. Letter grades will be assigned using the following scale:  90% for an A, 80% for a B, 70% for a C, 60% for a D, and 59% or less for an F.

**Important Dates:**

Thursday, January 28 first class meeting

Wednesday, February 24 withdrawal deadline (WP)

Thursday, April 29 last class meeting

Saturday, May 8 final exam due date

**Attendance:** Students who fail to submit homework or exams by the due dates will receive a zero on the respective assignment and be counted as absent. Students who accumulate more than 9 absences will be dropped from the course with a grade of "WF".

**Academic and/or Behavioral Misconduct** will not be tolerated.  Refer to the Student Responsibilities section of the Student Handbook for further details.

**The following assignments are due by 11:59pm on these dates:**

Stat 1401 Chapter 1.1 Homework 2/1/2021

Stat 1401 Chapter 1.2 Homework 2/3/2021

Stat 1401 Chapter 1.3 Homework 2/5/2021

Stat 1401 Chapter 1 Exam 2/8/2021

Stat 1401 Chapter 2.1-2.2 Homework 2/10/2021

Stat 1401 Chapter 2.3-2.6 Homework 2/12/2021

Stat 1401 Chapter 2.7 Homework 2/15/2021

Stat 1401 Chapter 2 Exam 2/17/2021

Stat 1401 Chapter 3.1-3.2 Homework 2/19/2021

Stat 1401 Chapter 3.3 Homework 2/22/2021

Stat 1401 Chapter 3.4-3.5 Homework 2/24/2021

Stat 1401 Chapter 3 Exam 2/26/2021

Stat 1401 Chapter 4.1 Homework 3/1/2021

Stat 1401 Chapter 4.2 Homework 3/3/2021

Stat 1401 Chapter 4.3 Homework 3/5/2021

Stat 1401 Chapter 4 Exam 3/8/2021

Stat 1401 Chapter 6.1 Homework 3/10/2021

Stat 1401 Chapter 6.2(a) Homework 3/12/2021

Stat 1401 Chapter 6.2(b) Homework 3/15/2021

Stat 1401 Chapter 6 Exam 3/27/2021

Stat 1401 Chapter 7.1 Homework 3/19/2021

Stat 1401 Chapter 7.2 Homework 3/29/2021

Stat 1401 Chapter 7.3 Homework 3/31/2021

Stat 1401 Chapter 7 Exam 4/1/2021

Stat 1401 Chapter 8.1 Homework 4/5/2021

Stat 1401 Chapter 8.2 Homework 4/7/2021

Stat 1401 Chapter 8.3 Homework 4/9/2021

Stat 1401 Chapter 8 Exam 4/12/2021

Stat 1401 Chapter 9.1-9.2 Homework 4/14/2021

Stat 1401 Chapter 9.3-9.4 Homework 4/16/2021

Stat 1401 Chapter 9.5 Homework 4/19/2021

Stat 1401 Chapter 9 Exam 4/21/2021

Stat 1401 Chapter 12.1-12.2 Homework 4/23/2021

Stat 1401 Chapter 12.3-12.4 Homework 4/26/2021

Stat 1401 Chapter 12.5-12.6 Homework 4/28/2021

Stat 1401 Chapter 12 Exam 4/30/2021

Stat 1401 Final Exam 5/8/2021

**Americans with Disabilities:**  If you have a documented disability as described by the Rehabilitation Act of 1973 (P.L. 933-112 Section 504) and Americans with Disabilities Act (ADA) and would like to request academic and/or physical accommodations, please contact the Office of Disability Services in the Center for Academic Support and Student Retention, Tucker Hall (phone (706) 568-2330 as soon as possible.  Course requirements will not be waived, but reasonable accommodations may be provided as appropriate.

**For information regarding HB 280 (**CampusCarry**), please refer to**[**www.usg.edu/HB280**](http://www.usg.edu/HB280)**. It is the permit holder's responsibility to know and comply with the law.**

**Student Learning Outcomes:** Students who successfully complete this course will be able to

1. Describe data by graphs and summary numbers.
2. Apply the basic concepts of probability.
3. Apply the concepts of random variables and distributions, in particular, binomial and normal distributions.
4. Use the sampling distributions of sample proportions and sample means to make inferences.
5. Utilize confidence intervals and margin of error to estimate means and proportions of one population.
6. Perform hypothesis testing for means and proportions for single populations and interpret the results.
7. Apply least square regression to data to make predictions and interpret correlations.
8. Apply mathematical principles to scientific inquiry, including the use of statistics and formulae to understand quantitative data
9. Express and manipulate mathematical information, concepts and thoughts in verbal, numeric, graphical and symbolic form while solving a variety of problems
10. Extract quantitative data from a given situation, translate and evaluate the data, make logical deductions and arrive at reasonable conclusions