

## Introduction to statistics (online)

**Instructor:** Dr. Scott Crawford

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**Office:** Ross 333

**Dates:** May 21<sup>st</sup> – July 3<sup>rd</sup>

[Video welcoming you to class](#)

[Video helping you start Webassign](#)

**Course Description:** Statistics is the tool to answer scientific questions given data. Your goal is to read scientific claims and understand the limits of their research, interpret what the results mean, and demonstrate the ability to analyze their data. The main tools taught in this class are confidence intervals and hypothesis tests (with p-values). The topics include descriptive statistics, one sample mean and proportion, two sample means and proportions, regression, and chi-squared tests.

**Text:** There is no required textbook. Any introductory statistics book will cover the same material as this class. There are videos of instruction and notes that can be used. There is a required Webassign code which you must purchase. The easiest way is to purchase them direct from Webassign. With the new system integrating into Canvas it should be accessible from WyoCourses (I'm hoping). When you reach the home page there are four sections that should be of interest: My Assignments, Communication, Announcements, and Grade.

**My assignments:** This shows the homework assignments. They are due Monday, Wednesday and Fridays at **11:59 pm MST**. If you are late you may extend the homework deadline by 1 day for a 10% penalty of the points you earn from then on. (This is done automatically within Webassign). You may use the extension until two days after the deadline. An extension without the penalty requires a University Excuse that can cover at least two days from when the assignment was due. It is considered your responsibility to begin the homework early enough to manage computer problems, power outages, content problems, illness, or personal struggles.

Each question can be submitted 5 times. That means there is no excuse for not being able to get the correct answers – **if you have missed a question 3 times you should find help**. For homework help use the discussion board, class time, and other students. The first assignment is due on Wednesday and it is your responsibility to make sure we can find solutions to any problems before the assignment is due. We have found that **students who work together tend to do better. Do not just guess**. The answer to question 1 on the homework (you know it's only there to force you read this syllabus) is "teach". That's because teaching this material to other students is a **fantastic** way to learn it. Believe it or not you can actually teach yourself by explaining what you don't understand to someone else.

**Communication – Class forums (Posting):** The discussion board is a place to ask questions about the homework, concepts, or share frustrations. It is part of your grade to post with every homework. There are no rules as to the quality of your post (except not offensively vulgar).

**Announcements:** Videos will be posted in announcements, as well as notes and information on the tests. Any changes to the class structure or deadlines will be announced here as well as in an email. It is expected that you will read the announcements and keep track of the deadlines.

**Grades:** This will have your current grade. At the beginning it will say you are getting 0, but as assignments are completed it will do a better job of predicting.

Exam 1 (50 minutes)	June 1, 2, 3, or 4	<b>A: 90-100</b>
Exam 2 (50 minutes)	June 15, 16, 17, or 18	<b>B: 80-89</b>
Exam 3 (50 minutes)	June 29, 30, July 1, or 2	<b>C: 70-79</b>
		<b>D: 60-69</b>
		<b>F: Below 60</b>

**Grading:**

Homework	40%
Posting	10%
Exam 1	15%
Exam 2	15%
Exam 3 (final)	20%

**Class:** Instruction is done through the online video series and notes. There will be office hour sessions each Monday and Thursday from 7-9pm MST. These “class” sessions will discuss the current topics for 10-15 minutes, then preview upcoming material for 20-30 minutes. The rest of the time is open for questions and homework help. Class will be cancelled May 28<sup>th</sup> for Memorial Day. Sessions will be recorded and posted for students to view (but not publically posted – only us will have access to the recordings). Meetings will be held in zoom, and you can find it by clicking here (<https://uwyo.zoom.us/j/719424634>).

**Exams:** Exams are due before class on Monday (7pm MST) and are only available during the four days the exam is open. Any calculator is allowed on the exam that does not connect to the internet. Test questions attempt to not give an advantage to students who have fancier calculators. It is considered cheating to be getting help from other people or online resources. The exams are 50 minutes long.

There is **no extra credit** in the class. If you are concerned about what grade you will need on the final to get a particular grade I can send you a calculating sheet. I do round grades to the nearest 1%, but not more (and it doesn’t make sense to – no matter where I draw the line someone will be just below it).

**Incompletes:** A grade of “incomplete” is only an option for students who have completed more than 2/3 of the class (after the second exam) and have faced unexpected, uncontrollable, and debilitating personal circumstances. An incomplete can help a student complete the class later to manage a sudden disability.

**Disability Statement:**

If you have a physical, learning, sensory or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 330 Knight Hall

**.Academic Honesty:**

The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty is unacceptable to our community and will not be tolerated.

Cheating on the tests will result in a failing grade and referral to the academic integrity office.

**The instructor may make changes to the syllabus as the course proceeds. If necessary, these changes will be announced in Webassign.**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
May 20	May 21 Class Meets	May 22	May 23 Homework 1 due	May 24 Class meets	May 25 Homework 2 due	May 26
May 27	May 28 Homework 3 due Memorial Day	May 29	May 30 Homework 4 due	May 31 Class meets	June 1	June 2
June 3	June 4 Exam 1 Class meets	June 5	June 6 Homework 5 due	June 7 Class Meets	June 8 Homework 6 due	June 9
June 10	June 11 Class Meets Homework 7 due	June 12	June 13 Homework 8 due	June 14 Class Meets	June 15	June 16
June 17	June 18 Exam 2 Class Meets	June 19	June 20 Homework 9 due	June 21 Class Meets	June 22 Homework 10 due	June 23
June 24	June 25 Class Meets Homework 11 due	June 26	June 27 Homework 12 due	June 28 Class Meets	June 29	June 30
July 1	July 2 Exam 3					