

Introduction to Statistics - Math 105
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In this course we will analyze and summarize data to help you understand statistical statements that are made in the news, by your friends, etc. The course will require calculation and hence a scientific – but not graphing – calculator is required (if you have a graphing calculator, you can use it). I will expect that you have one to use in class as well as during exams.

Resources: I have put my presentations in Google drive. Here is the URL to use to get to the material:
<https://tinyurl.com/Math105Colgate>

The presentations will serve as the textbook for the course. In this Google drive, you will also find guided lecture notes, Google Sheets pages that I use in class, and additional practice problems (with solutions).

View the presentations in single page mode! This is because they are animated so scrolling will be a bad experience. In Google Drive the default viewer (Lumin) does not allow this. To get around this, use the Chrome browser, open the pdf document in Google Drive, then click the printer button at the top right. It will then open in your browser. Hover your cursor over the pdf and on the right will appear some buttons. One looks like the 4 corners of a square. Click this button and you will be in single page mode. Alternatively, you can download the pdf and your computer's/tablet's/phone's pdf viewer should allow single page viewing (although phone viewing is probably a bit small for some of the content).

WebAssign: We will be using the online web-tool WebAssign (www.webassign.net).

To Login to WebAssign:

1. Connect to <http://www.webassign.net> and click **I have a class key**.
2. Enter colgate 3833 5304
3. Verify that the course is Introduction to Statistics with Aaron Robertson
4. If you do not have a WebAssign account you will need to create one; otherwise, login to your WebAssign account
5. You should then pay for WebAssign. You can use Visa, MasterCard, American Express, Discover Card, or PayPal. The cost is around \$30.

Office Hours: These will be Monday through Thursday, 9am to 10am. These will be virtual only, using Zoom. To request office hours:

1. Go to my appointments page at:

<https://tinyurl.com/Math105OH>

(Those are the letters O and H at the end, standing for Office Hours.)

2. Select an available 15-minute slot (grey blocks labeled MATH)
3. In the WHAT field (first field) put your first **and** last names (delete any pre-filled message)
4. Press Save.

Your appointment will appear on your Google calendar with the Zoom link and/or you will get a calendar invite in your email.

If you cannot make these office hours, email me to set up an appointment.

The Computer: We will be using Google's spreadsheet program Sheets so that your computer's operating system is irrelevant. You will also need a computer to do the homework and take exams.

Assignments: The assignments are on the WebAssign webpage. The WebAssign system grades (and records) your homework, as well as lets you know whether you got a specific question correct or not. You have **3** chances for all fill-in problems (but only 1 or 2 chances for multiple-choice type questions) to submit each question so that you can correct any error (and learn the material).

The homework due dates are on the WebAssign site. The homework is due **by the start of class** on the day it is due. Late work is not accepted without a note from your administrative dean.

Quizzes: To help you stay on top of the material, there will be 6 quizzes throughout the semester. These will be announced two days before. The quizzes are short (about 10-15 minutes) and consist of the main types of questions recently covered. They are to be done outside of class via WebAssign by 10pm on the day they are due. The password will be emailed out the day they are due. There are no make-up quizzes, but I do drop the lowest quiz grade.

Testing: There will be four exams and a cumulative final. The exams will be held during class times (10:30am to 11:20am) on the following days

Exam 1 :	MONDAY	SEPT. 21, over Units 1 and 2
Exam 2 :	WEDNESDAY	OCT. 14, over Units 3 and 4
Exam 3 :	FRIDAY	NOV. 13, over Units 5 and 6
Exam 4 :	WEDNESDAY	DEC. 9, over Unit 7
Final Exam :	TBA	TBA, over everything

The exams consist of computational and theoretical questions related to the material covered (including Excel). The exams are strictly timed (by WebAssign). Time **will be** a factor used to gauge the degree of mastery of material.

Exams 1 and 2 are part of Grading period A.

The tests will be done online through WebAssign. You will have a 60 minute window to complete each 50 minute test during regularly scheduled class time. I will email out the test password at 10:15am on the day of each exam.

Questions are all randomized. You may use your notes for the test; however, you should not rely on them due to the time constraint of the test.

If you are allowed extra time for test taking, please email me in the first few weeks to get things set up.

Grading: The grading scale is a straight scale (i.e., 90-100 are As, 80-89 are Bs, etc) broken down as follows: Assignments (15%), quizzes (5%), Midterms (15% each), and Final Exam (20%). The average GPA in my sections of statistics in recent years has been about 3.1. There **are** +'s and -'s for grades, e.g., 80.0-83.3 is a B-, 83.3-86.6 is a B, and 86.6 - 89.9 is a B+. The one exception is that there is no A+ grade in this class.