

BASIC STATISTICS SYLLABUS 2015-2016

Course name: ACST 1300

Statistics is about understanding the world, not about calculating the right number.

Teacher: Mr. Miller

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Planning Period: 11:27-12:38pm (2nd hour)

Online Parent Contact form: <https://goo.gl/forms/Db9OVXnGwSeOctMy1> (Your parent completing this online form will earn you 3 bonus points to start the year.)

COURSE DESIGN

This course is designed to allow you to think critically about the topics being discussed. You are not simply given formulas and asked to calculate things with them, rather, you are given an opportunity to discover the underlying principles and ideas behind the math. Much of what you learn will rely heavily on what you learn from your textbook. Your textbook not written to be merely a resource to check formulas and definitions. It was meant to be read. Hopefully, with what you read from your textbook and learn in class you will walk away from this course with a knowledge and insight about how statistics is modeled in our world and intertwined with many of the things you will see in your daily life as an adult.

GRADING

Tests: 35%

Quizzes: 25%

Projects: 20%

Homework: 20%

COURSE OUTLINE

We will cover at least 20 chapters. Chapters have been shortened so as to give you a chance to process information at an easier pace. Each chapter will have a quiz as the final assessment. There will be a quiz roughly every 4 or 5 chapters. There will be 5 quizzes and 2 finals total as follows throughout the year:

Semester 1

Unit 1 Test: Chapters 1-5

Unit 2 Test: Chapters 6-9

Final: Chapters 1-9

Semester 2

Unit 3 Test: Chapters 10-12

Unit 4 Test: Chapters 13-16

Unit 5 Test: Chapters 17-20

Final: Chapters 10-20

PROJECTS

There will be projects throughout the course that will involve generally analyzing data and making conclusions or running experiments, analyzing data, and drawing conclusions. You will display your results on posters, legal paper, and at some point during the spring, a group presentation.

SUPPLIES:

You will need to have a calculator, paper, and pencil. **ONLY WORK IN PENCIL** will be accepted. If you are going to purchase a graphing calculator, I recommend purchasing a Texas Instruments 84+ or 83+. A classroom set of graphing calculators will be available for use in the classroom. Graphing calculators **will not** be available to check out overnight in most circumstances. If you would like access to a virtual calculator at home with advanced statistics functions, download the wabbitemu app on your android (nothing yet for Apple products, sorry).

EXTRA HELP:

Please feel free to let me know if you need extra help outside the classroom. I am usually available after school or in the morning (by appointment) to assist you. I'm also on Twitter @OGMill and students have found this to be an excellent resource, as I can respond almost immediately to your questions. It is not a requirement. You live in the digital age; take advantage of using technology in a professional way. Parents may contact me by phone or email listed at the top of this page.

COLLEGE CREDIT:

Dual credit is available to those who want it. The Basic Statistics course is worth 3 credits through The University of Central Missouri at \$85 per credit hour which makes the total fee \$255. **Dual credit forms can be obtained from Mr. Miller after Christmas break in January.** That way you have an entire semester to decide whether you want to apply for dual credit for the course.

There is a slight change in procedures: You must fill out the UCM Admissions Application (one time only) at <http://ucmo.edu/recruit>. Click on [http://ucmo.edu/recruit](#) and begin the application. You must also fill out a Dual Credit Enrollment Form that you can obtain from me. You must have scored a 22 on the MATH section of the ACT to receive dual credit. If you received a 20 or 21 you must have a recommendation from the counselor's office.

STUDENT SUPPLEMENTS:

Powerpoint slides for each chapter will be posted on the **Google Classroom** Basic Statistics page. You can join the classroom using the following code: z9tuj17.