



We, the members of the Crosby High School Community are committed to providing a safe and welcoming environment that promotes a creative, innovative, and intellectually challenging learning experience to ensure that all students are prepared to become college and career ready in order to be productive members of a diverse society.

CROSBY HIGH SCHOOL COURSE SYLLABUS

Crosby Course Number & Title: **AP/UConn Statistics**

Instructor's Name: Dr. Danielle Rivard

Semester & Year: Full Year 2018-2019

COURSE DESCRIPTION

392A STATISTICS AP GRADES: 11/12 CREDIT: 1.00

Prerequisite: Successful completion of Algebra II Honors or ACE The course is equivalent to a one-semester college course in statistics. Students will be introduced to the major concepts for collecting, analyzing, and drawing conclusions from data. Topics also include sampling and experimentation. Availability of this and other AP courses in a given year depends on student enrollment. ****Students are required to take the AP exam****

COURSE GOALS/LEARNING OBJECTIVES

Students will be able to:

- Collect, organize and display raw data in graphical displays.
- Summarize raw data using measures of central tendency, measures of variation and linear regression.
- Discuss and use various techniques for collecting data, selecting samples and designing questionnaires.
- Compare observational studies to randomized experiments and discuss the advantages and disadvantages of each of these two methods of data collection.
- Discuss basic probability theory using tree diagrams and Venn Diagrams.
- Interpret discrete and continuous probability models used in statistical analyses.
- Interpret results associated with confidence intervals and hypothesis tests for one- and two-sample scenarios.
- Use technology, complete investigations, engage in problem solving, and writing activities as they build conceptual understanding.

Mathematical Practice Standards

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning.

REQUIRED TEXTBOOK AND MATERIALS

Access to Khan Academy, UConn Blackboard, TI84+ Graphing Calculator, Statistics Textbook

COURSE POLICIES

- Attendance and Tardy Policy
 - Attendance Policy: Please refer to the district policy located on the Crosby website or in the student handbook (<https://goo.gl/nSz4er>)
 - Students who are tardy to a class 3 times will serve a detention issued by the classroom teacher. Each subsequent tardy will be a referral to the office for disciplinary action.

- Late Work Policy
 - Refer to district grading policy or see the link at the bottom of the page.

- Academic Dishonesty - Academic dishonesty shall in general mean conduct which has as its intent or effect the false representation of a student's academic performance, including but not limited to:
 - a. Cheating on an examination
 - b. Collaborating with others in work to be presented, contrary to the stated rules of the course
 - c. Plagiarizing, including the submission of others ideas or papers (whether purchased, borrowed or otherwise obtained) as one's own
 - d. Stealing or having unauthorized access to examination or course materials
 - e. Falsifying records, laboratory or other data
 - f. Submitting, if contrary to the rules of a course, work previously presented in another course
 - g. Knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.

Students should not give or receive aid during examinations, quizzes, tests or lab assignments. Students should not use answers to examinations, quizzes and tests written on cheat sheets, clothing or body parts, or obtained from others who have taken the same test prior to them. Students should not use in any written work, without proper acknowledgement, the wording of any sentence or part of a sentence of another author without acknowledgement of the original author. Students should not use calculating devices during tests where calculators are not permitted.

Plagiarism according to The American Heritage Dictionary of the English Language, Fourth Edition, 2000, is "1. A piece of writing that has been copied from someone else and is presented as being your own. 2. The act of plagiarizing: taking someone's words or ideas as if they were your own." If you copy another's work in a paper, for instance, you must put the copied material in quotation marks and footnote or endnotes. If you restate the language or thoughts of another in your own words, you are paraphrasing. Omit the quotation marks, but footnote or endnote the original source. Not to attribute the idea to the original person is to plagiarize. In general, it is better to acknowledge too many sources than too few.

Plagiarism, as defined above, is considered a serious academic offense. According to Connecticut statute, plagiarism is a criminal act and classified as a Class "B" misdemeanor. The teacher, in conference with an administrator, will exercise his/her professional judgment when determining an appropriate penalty for a project that has been plagiarized. The nature of the penalty should be relative to the magnitude of the offense. Examples of penalties that will be invoked are: a zero for the project, an "F" for the course, and/or referral to the proper authorities. The teacher and administrator will

determine if the student may be permitted to complete the paper properly, or write an entire new paper properly. These and other penalties will not be imposed when the classroom teacher determines that the sources in a paper have been mis-cited. The teacher with the administration will determine the extent of grade reduction and possible suspension or referral to authorities. (Obtained from Tunxis Community College Handbook)

CODE OF CONDUCT

- Profanity
 - The use of profanity in school is unacceptable and can result in an office referral.
- Cell Phone Usage Policy
 - Cell phones **MUST BE** off and away other than when approved by the teacher for academic purposes
 - 1st offense: Confiscate, warning and notify parent, return to student at the end of the school day.
 - 2nd offense: Confiscate, in school suspension or after school detention, item to be returned to parent/legal guardian only at the end of the school day.
 - 3rd offense: Confiscate, out of school suspension, item to be returned to parent/legal guardian only at the end of the school day. (<https://goo.gl/FMxNyt>)
- Disposition Toward Learning

Student/Parent Handbook: <https://goo.gl/rsFr95>

CROSBY - COURSE GRADING (Per District Policy) *(UConn grade may be different – See Below)

60% Assessments

20% Classwork

10% Disposition Toward Learning

10% Homework

100% Total

UConn COURSE GRADING

Assessments/Quizzes/Tests (40%)

Midterm (10%)

Final Exam/Project (10%)

Homework (35%)

Classwork/Participation/Disposition (5%)

Total (100%)

Important Dates

All Unit Assessments will be announced One Week in Advance

Midterm Exam – Per Crosby HS schedule **(January 2019)**

AP Statistics Exam **Thursday May 16th** *Required of ALL students

Final Exam/Project – Per Crosby HS schedule **(June 2019)**