Course Syllabus

Chandler Unified School District

MAT425 AP Statistics

SY 2024-25

Course Overview

Course Description

The college-level course meets the requirements for students to take the AP examination. The four major conceptual themes will be data analysis, study planning strategies, probability, and statistical inference. Technology, projects, writing, and cooperative group problem-solving are integral parts of this course. Students will use the standards for mathematical practice to engage with the subject matter.

AP/IB/Dual Enrollment

AP / May be offered for Dual Credit.

Prerequisite/Fee(s)

Precalculus or Algebra 2

Course Materials

Graphing Calculator
Laptop/Chrome Book
Pencil
Paper
Notes

Adopted Resource(s)

The Practice of Statistics 6th Ed, Starnes (BFW)

An asterisk indicates a resource containing sexually explicit materials per legislative definitions. CUSD has determined that all the above resources are of exceptional educational value.

Site and Faculty Information

School name and address:

Perry High School, 1919 E Queen Creek Rd, Gilbert, AZ 85297

Building principal:

Heather Patterson
patterson.heather@cusd80.com

Teacher:

Thomas Rothery Ph.D.
rothery.thomas@cusd80.com
Office hours: 2:15 - 3:00 pm

Course Access

This course is taught in-person at Perry High School. Students will have access to the curriculum and instruction in the classroom. Google Classroom is the primary location for students to access material when absent from classes taught in person.

Help
Academic Support
- Contact the teacher to schedule an appointment during office hours
- Ed Tech support for students, parents/guardians, and community link (cusd80.com/Page/45109)

Mental Health Support
- CUSD mental health support cusd80.com/Domain/10528 or 480-573-8808 (talk or text)
- Suicide & Crisis Lifeline: 9-8-8 hotline
- 24-hour Crisis Line Talk: 602-222-9444, Text: 741-741

Student Conduct, Success, and Responsibilities

Student Handbook
Students must follow the policies and procedures in the Student Handbook. Copies of the handbook can be found at https://www.cusd80.com/Page/533, and printed copies will be provided upon request.

Student Responsibilities
Students are expected to arrive to class on time and should be sitting in their seats when the bell rings. All cell phones and other forms of personal technology are to be put away for the duration of the class period. Students are asked to bring the required materials to class, to be actively engaged during the lesson, and to work on assignments when time permits.

1. Progress Reports: Progress Reports are submitted on Infinite Campus each quarter.
2. Cheating: Cheating is defined as:
    A. On tests/quizzes
        i. viewing another student's work
        ii. talking during a test period
        iii. helping another student on an evaluation
        iv. using unauthorized reference materials
        v. using unauthorized materials on a graphing calculator
        vi. having a cell phone out during a quiz, test, or exam
    B. On homework
        i. copying another student's work
        ii. turning in another student's work
        iii. giving your paper to another student
C. On group work
        i. not contributing to the group's effort
        ii. using the work of another group
        iii. giving another group your group's work
STUDENTS CAUGHT CHEATING WILL NOT BE GIVEN ANY CREDIT ON THE PARTICULAR ACTIVITY IN QUESTION.
3. The use cell phones, and other listening devices are not permitted during class.

Late work
Late work is not accepted.

Assessments and Assignments
Students will complete assessments during each unit of study to assess their understanding. At the end of the first and second semesters, students will complete the CUSD Common Final. The Common Final

will count for 20% of the student's final semester grade in grades 9-12 and 10% in grades 7-8 (some exceptions may apply at the Junior High level). Common finals will be in ELA, Math, Science, Social Science, and World Language.

Final exams will be given during the CUSD Jr High/High School Early Dismissal days in December and May, as identified on the [District Calendar](#).

If students are requested to participate in a survey, the survey questions will be provided to parents/guardians seven days before student contact.

Grading

Grade Percentage

A   90% - 100%
B   80% - 89%
C   70% - 79%
D   60% - 69%
F   <60%

Quarter grades

1. Tests: Tests will be given at the end of each chapter or unit. Make-ups for absentees will be given during non-class hours and within a number of days' instruction missed. Tests are worth 100 points each.
2. Quizzes: Quizzes will be given with regularity. Make-up quizzes will be given in the same manners as tests. Quizzes are worth 10-50 points each.
3. Homework: Homework will be assigned 4-5 times weekly and will be checked at the beginning of the class period. Homework should be kept separate from notes. Daily homework scores are worth 10 points each. Homework must be completed on loose-leaf paper and must be done in pencil.
4. Projects: Projects will be given throughout the year. They are worth 250 points.
5. Participation: Each student will begin the semester with 50 points. For each day that the student has an unexcused tardy, has an unexcused absence, or forgets his/her materials, 2 points will be deducted from the original 50 points. At the end of the semester, a score out of 50 points will be averaged into the student's grade.
6. Quarter Grades: The quarter grade will be based on the percent determined by the number of points earned divided by the number of points possible.
Grading Scale:
90-100% A
80-89% B
70-79% C
60-69% D
0-59% F
7. Semester Grade: While quarter grades are given, grades are progressive throughout the duration of the semester. Semester grades are determined by the approximate breakdown (Homework-12%, Quizzes, Tests, and Projects-68%, and the Semester Exam-20%)

Semester grades

Semester grades are calculated using 80/20: A combination of the two quarters accounts for 80% of the semester grade and the final exam accounts for remaining 20%.

Units of study

Units for MAT425 AP Statistics

An asterisk will indicate a unit of study or novel containing sexually explicit materials per legislative definitions.

Exploring One-Variable Data

Exploring Two-Variable Data

Collecting Data

Probability, Random Variables, and Probability Distributions

Sampling Distributions

Inference of Categorical Data- Proportions

Inference of Quantitative Data- Means

Inference of Categorical Data- Chi Squared

Inference of Quantitative Data- Slopes

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Parent/Guardian
Acknowledgment

Parents/Guardians must specify their approval by selecting "Acknowledge" or "Potential Conflict" for their student's involvement in the units of study. Please note students cannot decline participation in standards-based units. The teacher will reach out regarding options if "Potential Conflict" is selected.

Unit of study	Acknowledge	Potential Conflict
Exploring One-Variable Data	☐	☐
Exploring Two-Variable Data	☐	☐
Collecting Data	☐	☐
Probability, Random Variables, and Probability Distributions	☐	☐
Sampling Distributions	☐	☐
Inference of Categorical Data- Proportions	☐	☐
Inference of Quantitative Data- Means	☐	☐
Inference of Categorical Data- Chi Squared	☐	☐
Inference of Quantitative Data- Slopes	☐	☐

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By signing and returning this form, the parent/guardian acknowledges they have reviewed the resources and units of the study included in the syllabus.

☐ As the parent/guardian, I understand I may contact the teacher with questions on resources, content, or units of study at any time during the school year and view my student's grades in Infinite Campus.

Student name (printed) _____

Student signature _____

Parent/Guardian name (printed) _____

Parent Signature _____

Date _____

Please return this page to your student's teacher.