Chandler Unified School District

MAT445 AP Calculus BC

SY 2024-25

Course Overview

Course Description

This course is equivalent to a year-long calculus class at a university. It prepares students to sit for AP examinations to earn two semesters of college credit in calculus. Students will explore differential and integral calculus concepts, methods, and applications, including limits, parametric, polar, and series. Students will learn to include determining expressions and values using mathematical procedures and rules, connection representations, justifying reasoning and solutions, and using correct notation, language, and mathematical conventions to communicate results or solutions.

AP/IB/Dual Enrollment

AP / May be offered for Dual Credit.

Prerequisite/Fee(s)

Calculus AB or Honors Precalculus or Brief Calculus.

Course Materials

Access to Technology - OneNote, Webwork, Albert.io, Desmos
Calculators - TI 84 or TI Nspire
Notebook
Writing Utensils (Pencils, Color Pens, Erasers, Stylus)

Adopted Resource(s)

Calculus Early Transcendental Function 6th Ed, Larson & Edwards (Cengage) & Calculus of a Single Variable Early Transcendental Functions 6th Ed, Larson & Edwards (Cengage)

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:

Hamilton High School, 3700 S Arizona Ave, Chandler, AZ 85248

Building principal:

Domonic Romero
romero.domonic@cusd80.com

Teacher:

Rabia Bithi MS in Mathematics Education
bithi.rabia@cusd80.com
Office hours: Monday & Tuesday 2:15pm - 3:00 pm

Course Access

This course is taught in-person at Hamilton 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
It is expected that students have a strong foundation in Algebra, Geometry, Trigonometry, and Pre-Calculus. It is also expected for students to actively participate, to decide on which strategy to use to learn a complex subject and take the responsibility to seek help when one needs it.

We will be using Microsoft OneNote as our main platform instead of Google Classroom for all our interactions. Access to OneNote at all times is extremely important as all materials will be uploaded in OneNote. Students can download the OneNote app on their phone to upload pictures of their work in the appropriate tab.

Homework Submissions:
• Assignments will mainly be turned in "electronically," and are due 7:00 am on the due date unless specified. Once the OneNote is set up, students will upload their work on the appropriate page in the Homework folder of your OneNote notebook. If work is not actually done in OneNote, pictures of the homework can be uploaded directly to OneNote using the OneNote app.

• Homework will always be graded for accuracy, so students are required to do corrections if they want to earn all points. Handouts will have answers keys posted or will be expected to come for help to make sure they are doing all the homework correct and to earn all points.

•Homework will be given through multiple platforms. Handouts will be uploaded in OneNote, and in addition, there will also be other online homework platforms –Albert.io, Webwork, and or UT Quest. These online homework assignments (Albert, Webwork and UT Quest) will be automatically graded online.

- For Albert and UTQuest the student will get only one try, so, to earn full credits, a student must do all the work on paper/tablet and once the online assignment is submitted and graded, they will need to go back and do corrections on the ones they have missed using a different color pen/pencil to show distinctively where the corrections are. These should be uploaded together as one document in the appropriate homework page to earn full credit. If corrections are not done, then student will earn just what score they

earned in the
assignment provided the work has been uploaded. If corrections are not done and work for the ones that the student got right are not uploaded, then the student will earn half of what the assignment score is.

- For Webwork you have unlimited tries so a student will earn the points that is their final score in webwork. The student will need to do work which will be additional 10 points which will be entered in infinite campus as one grade at the end of the quarter.

• A weekly will be assigned every week. Work needs to be done and uploaded in the appropriate page in the homework folder in OneNote. It will be given on the block day, which will be due next Tuesday. Answer keys will be distributed on Tuesday and students will be expected to do corrections and then reupload under the original document with corrections using a different color pen on Wed/Thurs to earn points back for the ones they missed.

• Note cards – students will have to make note cards with the main idea of each lesson on one side of the note cards along with examples at the back of the note cards. These will be due on the day of the chapter test. They will be worth 5 test points, so they need to represent that you have done them in detail.

If a student is having difficulty with anything on this course, please see the teacher as soon as possible. A time will be scheduled that works for both the student and the teacher.

Late work
If a student is absent during the week, it is expected that they will make up these types of assignments within the number of days that they are absent. If the student is absent two days, they will have two days to complete the assignment.
Failure to make up the assignment by the makeup day will result in a zero grade for the assignment.
Late work will be 50% of the grade.

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%

Tests & Quizzes …………………....80%
Homework…………….….………… 20%

Semester grades are calculated using 40/40/20: Each quarter accounts for 40% of the semester grade and the final exam accounts for the remaining 20%.

Units of study

Units for MAT445 AP Calculus BC

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

Limits
Derivatives
Integration
Application of Integratrion
Application of Derivatives
Differential Equations
Advanced Techniques of Integration
Parametric Functions & Vectors
Polar Functions
Series

Signature Page - *Please return this page to your student's teacher.*

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Teacher: Rabia Bithi , bithi.rabia@cusd80.com

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
Limits	☐	☐
Derivatives	☐	☐
Integration	☐	☐
Application of Integratrion	☐	☐
Application of Derivatives	☐	☐
Differential Equations	☐	☐
Advanced Techniques of Integration	☐	☐
Parametric Functions & Vectors	☐	☐
Polar Functions	☐	☐
Series	☐	☐

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

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.