Deer Valley Unified School District

Course: AP Calculus AB **E-mail: jeff.williams@dvusd.org**
Teacher: Mr. Williams **Voice Mail: 623-445-7262**
Room: 619 & 7th hour 155 **Prep Hour: None** **Web Page:** https://www.dvusd.org/Domain/2916

Tutoring: Tues-Thur from 7-7:30am and after school by appointment

Course Description:

Unit 1 - Limits
Unit 2 - Differentiation
Unit 3 - Applications of Differentiation
Unit 4 - Integration
Unit 5 - Differential Equations
Unit 6 - Application of Integration
Unit 7 - Integration Techniques
Unit 8 - Infinite Series
Unit 9 - Parametric and Polar Equations

Mission Statement:

The SOHS math department will ensure that all students will increase their competency in Math through quality instruction and collaboration.

Course Objectives:

Topical Outline for AP Calculus AB*

1. Functions, Graphs, and Limits
   Analysis of graphs.
   Limits of functions (including one-sided limits).
   Asymptotic and unbounded behavior.
   Continuity as a property of functions.
2. Derivatives
   Concept of the derivative.
   Derivative at a point.
   Derivative as a function.
   Second Derivatives.
   Applications of derivatives.
   Computation of derivatives.
3. Integrals
   Riemann sums.
   Interpretations and properties of definite integrals.
   Applications of integrals.
   Fundamental Theorem of Calculus.
   Techniques of antidifferentiation.
   Applications of antidifferentiation.
   Numerical approximations of definite integrals.
4. Parametric Equations, Polar Coordinates/Equations, and Vector-Valued Functions
5. Infinite Sequences and Series
6. Integration by Parts, Partial Fractions, Improper Integrals, Euler's Method, Arc Length & Surfaces of Revolution

*Advanced Placement Course Description, The College Board

Grading Policy
O'Connor High School believes that authentic grading accurately measures and reflects a student's performance based upon mastery of the standards.

O'Connor High School implements a research-based, unified grading and reporting policy that is focused on a standards-based mindset in which all grades are proficiency-based that effectively communicate what students know and can do, so students can focus on growth and learning. Grades will have consistent meaning throughout the system and be based upon grade level standards.

In order to increase grading consistency, accuracy, equity, and focus on learning, O'Connor High School strives to employ the following tenets:

- A student's grade should reflect academic learning and should never be used as a punitive tool.
- Grades are for reporting the status of academic learning, not behavioral conduct.
- The primary purpose of assessment and grading is to provide detailed feedback to inform student learning.
- Learning is a process that takes place over time and at different speeds for different students.
- A coordinated assessment and grading system clarifies the expectations for all students and maximizes academic opportunities.

Social Behavior Agreement
We at OHS believe that all students have the right to learn, all teachers have the right to teach and that all students will have the opportunity to demonstrate their learning. We believe that we do not leave this decision of learning up to choice. Thus the reason for the Social Behavior Agreement.

Social emotional learning (SEL) is an important process through which students are supported in social skill development to engage in positive relationships with their peers, teachers, and other adults while learning to access their emotional intelligence to foster awareness of self and others.

Integrated through a whole-school approach in the teaching and learning communities, school climate and culture, and supporting structures, SEL can promote good decision-making, positive relationships, and self-care. By implementing SEL in a school-wide approach, educators can help students become more successful in high school and beyond.
There are five interrelated sets of cognitive, affective and behavioral competencies. These along with our Standards Based Mindset Academic Behavior Framework and Flowchart. Assist our teachers in helping our students make good educational choices, along with assisting students with self-advocating, responsible and self-awareness of their academic choices.
Self-awareness: The ability to accurately recognize one's emotions and thoughts and their influence on behavior. This includes accurately assessing one's strengths and limitations and possessing a well-grounded sense of confidence and optimism.
Self-management: The ability to regulate one's emotions, thoughts, and behaviors effectively in different situations. This includes managing stress, controlling impulses, motivating oneself, and setting and working toward achieving personal and academic goals.
Social awareness: The ability to take the perspective of and empathize with others from diverse backgrounds and cultures, to understand social and ethical norms for behavior, and to recognize family, school, and community resources and supports.
Relationship skills: The ability to establish and maintain healthy and rewarding relationships with diverse individuals and groups. This includes communicating clearly, listening actively, cooperating, resisting inappropriate social pressure, negotiating conflict constructively, and seeking and offering help when needed.
Responsible decision-making: The ability to make constructive and respectful choices about personal behavior and social interactions based on consideration of ethical standards, safety concerns, social norms, the realistic evaluation of consequences of various actions, and the well-being of self and others.

O'Connor High School will be using Traditional Grading as defined by the DVUSD Grading Practices 2023-2024 Document:

Highly Proficient A 100%-90%			Proficient B 89%-80%		Proficient C 79%-70%	
100-97	96-94	93-90	89-85	84-80	79-75	74-70
All 4's on standards	All 4's except for one 3	Mostly 4's with some 3's and/or 2's	Mostly 3's with some 4's **All 3's on standards**	Mostly 3's and 4's with a 2	Mostly 3's with some 2's	Mostly 2's with 3's and/or 4's
Partially Proficient D 69%-60%			**Minimally Proficient F 59%-50%**			
69-65		64-60	59-56		55-50	
Mostly 2's and 3's with a 1		**All 2's on standards**	Mostly 2's and some 1's		**All 1's on standards**	
No Evidence						
49% - 0%						

SDOHS will be utilizing the categories and weights associated with DVUSD Grading Practices, specifically the use of Assessment, Coursework, and Practice categories for all entries in the gradebook. A breakdown of these changes are listed below:

ASSESSMENT: This category includes all items used to measure a student's proficiency toward the learning standards once the student has had sufficient practice and at a specified point in time. This category can include summative tests, performance assessments, reports, unit or module assessments, quizzes, long-term projects, short-term projects, presentations, capstone projects, research papers, and lab reports.

COURSEWORK: This category includes formative work that provides students with the opportunity to learn content and skills and to receive feedback on their learning. Coursework is assigned to provide meaningful, independent practice, reinforce learning targets, and extend learning. This category can include in-class assignments, quizzes, exit tickets, checks-for-understanding, and daily activities.

PRACTICE: This category includes formative student work that a student completes while in the process of learning specific skills. Student work that is done inside and outside of the classroom, such as classwork and homework, falls into this category.

Weights
All teacher gradebooks will utilize the following weights for each category in the gradebook.

ASSESSMENT CATEGORY	80%
COURSEWORK CATEGORY	20%
PRACTICE CATEGORY	0%

In addition to the percentage score for entries in the gradebook, Assessment category entries will have standards tagged for informational purposes only. This will give the student, parent, and teacher the ability to quickly assess what skill or content section needs improvement.

PowerSchool Access
The PowerSchool site allows parents/guardians and students to access the student's grades, attendance, and other information. If you need your access information, please stop by the front desk during business hours. You will need a photo I.D. The web address is: ps.dvusd.org/public

Make-Up Work
When a student is absent from school, the student will be provided the opportunity to make up work in order to close learning gaps from time away from school. The teacher will provide access to the student's assignment(s) and any hand-out or materials necessary for accomplishment of such assignment, allowing a minimum make-up period of one (1) day for each day absent.

Students are responsible for communicating with the teacher the first day back from an absence to develop a plan to make-up lost learning/assignments. Students are encouraged to communicate electronically with the teacher during the absence.

Students who miss school work because of unexcused absences or suspensions will be given the opportunity to make-up missed work for credit. The teacher may assign such make-up work as necessary to ensure academic progress, ***not as a punitive measure.***

Late Work Procedure
In order to accurately reflect a student's academic performance level, teachers will accept late work and missing work for full credit if the work is submitted within the timeframe of the current unit of study. A zero will be entered in the gradebook until the work is submitted. Students will be responsible for turning in late work in addition to their current work, which results in the natural consequence of a heavier workload. The primary consequence for not completing the work is to **complete the work.** Students may be assigned to our academic intervention time, assigned behavioral consequences such as lunch and/or after school detention for not completing work. It is the expectation that during these assigned intervention and/or detentions, the student utilizes the time to **complete the missing work.**

In order for **Late Work** to be accepted, students must meet the following parameters:

- Assignment is not due within the class period
- Assignment is not a timed activity (such as a Quick-Write Essay)
- Assignment is not a Long-Term assignment (over multiple weeks)
- Assignment is turned in within the following time frame
    - 9-12 Grades: By the end of the unit

If a student meets the above criteria, he/she will be issued full credit for the work submitted (no added penalties or caps on the grade that can be earned). The teacher will mark the student's assignment with the "Late" special code. If the assignment is an assessment, the proficiency level of the standards attached will be entered.

Long-Term Project Procedure
There is an important distinction between daily/formative assignments and long-term/summative projects. Make-up policies regarding long-term/summative projects are based on the timeframe of the student's absence and the requirements of the long-term project. It is the expectation that students submit long-term projects on the day they are due. ***Students should self-advocate for assistance if they need extensions.***

Re-Take/Reassessment Procedure

Retake: The student completes another assessment of the same learning targets. The assessment to be retaken may be in the same format or a different format. The higher of the two scores will be entered in the gradebook.*

Reperformance: The student will be reassessed on the same learning target later in the marking period as part of the instruction cycle, thus providing an additional measurement of the learning. All reperformance scores related to the learning target will be entered in the gradebook.

Retakes or reperformance of essential skills is important to support learning of critical skills and filling gaps in learning. Retakes are allowed for assessments in which scores are entered into the gradebook, for full credit, if reperformance opportunities will not be available during the marking period or in addition to reperformance opportunities during the marking period.

In order to earn a retake opportunity, a student must complete all of the following:

- Complete all formative coursework related to the content/skill assessed
- Consult with the teacher
- Submit a reassessment plan or application, if required by the teacher

A reassessment plan must be scheduled within the following time frames:

- 9-12th Grades: With 5 school days of receiving the assessment score, the student must communicate with the

teacher to create a reassessment plan.

All students will have the opportunity to improve their learning. At O'Connor, we instill in our students the value of learning from our mistakes and failures. We recognize and reward hard work, grit, and determination.

The primary objective of grades is to report where a student is in the learning process, regardless of how much time or effort the student needs to get there.

At O'Connor, students will be allowed to retake assessments/assignments during the same grading period to show the student's current proficiency level of the standards.

- Students will be afforded extra time for learning; however, there is an ending point for each course in which final reports on a student's learning must be conveyed.
- End of term or capstone projects and performance assessments will not be eligible for retakes.
- Assessments/assignments may be in an alternate format for reassessment.
- Students are required to show *evidence of learning* and applying the teacher's feedback in order to earn a reassessment opportunity.

Evidence of Learning will include…

1. Completing at least 90% of homework questions through MathXL and class textbook.
2. Attending tutoring before school, after school or during Talon Time if instructed by the teacher.

Classroom Behavior Expectations and Consequences

- Do your personal best.
- Be prepared to work quietly when the bell rings.
- Be polite and respect the rights of yourself and others.
- Be quiet when the teacher or other students are speaking.
- Be active participants in the learning process.
- Take responsibility for you actions.

Be on time and be ready to participate; have your **homework and assignments completed**. You will receive a (pass/fail) grade for your participation every day.

You must **turn in all assignments and assessments on time**. Check your calendar twice a week at the least, and use your planner if needed.

Bring your Chromebook **charged** for every class.

Electronic Device Use

Technology (cell phones, iPads, hand-held devices, etc.) use in the classroom is intended to **enhance** the learning environment for all students; however, any use of technology that degrades the learning environment, promotes dishonest or illegal activities, is prohibited. ***No cell phones allowed in AP Calculus BC class***. Students have to place their cellphones in the plastic bag in the classroom at the beginning of the class. If the student has an emergency and he/she has to use cell phones, the student will ask the teacher for permission.

School iPads to Facilitate Learning:

Sandra Day O'Connor High School utilizes iPads **as a learning tool** in the classroom. The classroom teacher will inform students as to when they may use their device and for which purposes. Students must adhere to their teacher's guidelines for use and appropriate times for use. Any student who violates the teacher's guidelines will be subject to disciplinary action.

Please note- students may not access their personal devices, whether for entertainment or learning, if the teacher has stated that the classroom activities at that time do not warrant use. For example, during testing or assessments.

AP Exam Testing (For all AP Classes)

All students will take a complete AP Practice Exam. This practice exam will be scheduled in advance and participation is mandatory as this may be used as your final assessment for the course.

Students who participate in the official Advanced Placement College Board AP Exam for college credit will have the option of choosing from the following two choices: 1. Their semester grade as their final assessment grade (e.g. a student has a "A" for their semester course grade may choose to take the "A" as their final exam score as well); OR 2. Student may choose to use their score on the AP Practice Exam as their final exam score (e.g. a student receives a "A" on the Practice Exam may choose to take the "A" as their final exam score as well).

Students who choose NOT to participate in the official Advanced Placement College Board AP Exam for college credit will take a full-length AP released exam as their final assessment grade. Students NOT taking the official AP College Board Exam will NOT have the choice of using their semester grade or AP Practice Exam score as their final assessment grade.

All students, whether testing for Advanced Placement College Board credit or not, will sit for their exam on Monday **May 13th, 2024**. Students testing for college credit will test with the appropriate facilitator. Students testing as their final exam will test with **Mr. Williams.** Participation in this exam date is not optional.

Academic Integrity Statement in the Course Syllabus:
Adherence to the O'Connor Academic Integrity Code
All students enrolled in **AP Calculus BC** will adhere to the framework and guidelines set forth in the O'Connor High School Academic Integrity Code. Cheating and Plagiarism will not be tolerated. The purpose of this code is to promote a positive learning environment for all involved. Any student who violates this code will be referred to the Students Rights and Responsibilities handbook and assignment of appropriate consequences.

Plagiarism and Cheating
Cheating: In cheating, a student is taking the work of another, on any assignment, and claiming it as his/her own. At SDOHS cheating includes but is not limited to:

- Copying and/or offering homework verbally, in written form, or by electronic means from/to another student.
- Copying and/or offering questions and/or answers on tests or quizzes verbally, in written form, or by electronic means from/to another student.
- Pressuring other students to copy and/or offer homework, answers and/or questions on tests or quizzes verbally, in written form or by electronic means.
- Bringing in and using unauthorized information during class time, including information stored in any electronic device.
- Offering or receiving information under circumstances in which information is not to be shared.
- Having anyone, including parents or tutors, complete assignments and submitting the work as one's own.
- Presenting collaborative work as independent work and independent work as collaborative. (In group work, one person should not and will not bear the burden for the entire group assignment.)
- Copying answers from answer guides in texts.
- Fabricating data, information, or sources. Presenting made up material as authentic.

Plagiarism: The act of plagiarism may include direct copying, but it may also be more complex than verbatim repetition. A student, in preparing a project for a class, will have plagiarized if he/she has taken information from sources without citing the sources that have been used. Plagiarized material may appear in a student's paper as word-for-word copying, a summation, or a paraphrase of another's ideas. A student has plagiarized whether the material from another source has been taken in whole or in part. In effect, by not naming the source, the student is claiming the work of another as his/hers. At SDOHS plagiarism includes but is not limited to:

- Submitting images and/or documents in whole or in part from the Internet without citation of the source(s).
- Copying another's work.
- Using another's ideas without proper citations.
- Incorporating portions of another's writing within the context of your own work.
- Failing to acknowledge a source of information.
- Using "unique" phrases without citations.
- Using graphics, charts, diagrams, or illustrations without citations.
- Using a translator (either in-person or on-line) without proper citations

Plagiarism and/or Cheating will result in disciplinary actions and an F.

9-12 Artificial Intelligence (AI) statement

DVUSD has determined that the use of Large Language Models (LLMs), such as ChatGPT, is prohibited unless clearly specified by your teacher. Specific guidelines will be provided in the assignment details. If you are unsure if the tool or website you are using is an LLM or if it is permitted on a specific assignment, please contact your teacher before submitting your work.

Loss of Credit Due to Absences

Upon reaching 12 unexcused and/or excused absences, a student may **lose credit** in any given class.
Any student may be placed on an Attendance Contract upon accumulating multiple excused and unexcused absences.
Any student with excessive absences may:

1. Lose credit in one or more classes.
2. Lose parking privileges.

Communication

Please contact the teacher for any student concerns. It is crucial that teachers, parents, and students maintain open lines of communication in order to ensure the best support for student success. Contact information is provided at the top of the first page of this syllabus.

How to Get Help:

If you feel confused, **PLEASE ASK QUESTIONS!** My goal is to help you succeed. Tutoring will be held as noted, in Mr. Williams' classroom, Room 805. One on one tutoring appointments can also be made by speaking with me. This will be in addition to the tutoring offered during Talon Time twice a week during the school day.

Materials:

- Pencils (mechanical preferred)
- 2 or 3 inch Binder
- Composition Book
- Lined paper to go inside binder (or a notebook)
- TI-83/84 graphing calculator (TI-84 Plus will be used in class)
- A stylus for the iPad is highly encouraged

Suggestions for Success:

- Keep a great notebook with extensive notes
- Complete all assignments
- Ask questions
- Get extra help – before or after school by appointment
- Do not miss class
- Think positively, don't give up!

The Deer Valley Unified School District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. For any inquiries regarding nondiscrimination policies contact the Superintendent's Department, 20402 N. 15th Avenue, Phoenix, AZ 85027. 623.445.5000.