

West Ranch High School
AP Calculus AB
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“West Ranch High School is committed to challenging and motivating each student to achieve excellence and become a responsible and valuable member of society. Through relationships, rigor, and relevance, West Ranch High School promotes integrity, distinction, and vision.”

Dear Students and Parents:

This is the first semester of a two semester course. Before studying calculus, students should have a strong background in secondary mathematics including algebra, geometry, trigonometry, logarithms, exponential functions, and solving elementary functions. Students should know linear, polynomial, rational, exponential, logarithmic, trigonometric, and piecewise functions. It is extremely beneficial for students to know how to graph trig functions and know the common trig functions from the unit circle.

This is a traditional first course in college calculus. Students will prepare to take the advanced placement exam. Students should be familiar with the common methods and applications of calculus. Students will be learning how to find limits, derivatives and integrals. Once students master each of these techniques, they will learn principles of rates, optimization, area and volume. Through the use of unifying themes of derivatives, integrals, limits, approximation, and applications, the calculus becomes connected. The course emphasizes a multi-representational approach by presenting concepts graphically, geometrically, numerically, analytically and verbally. These techniques and principles will be combined in order for the students to understand the fundamentals of calculus that would be taught at any college or university. An Advanced Placement (AP) course in calculus consists of a full academic year of work in calculus comparable to courses in colleges and universities.

Class Materials

Students should bring the following to class everyday.

- Sharpened pencils & plenty of **GRAPH** paper or plain white paper
- Graphing calculator
 - A graphing calculator is important for advancing skills being taught in this course and is required for Advanced Placement math tests. Many complex problems can only be solved using this device. Calculators are available for checkout from your teacher. Students may also choose to purchase their own calculator so as to have more opportunities to work with it and gain familiarity with its use.
- Textbook (Sorry, no class set available) for this course is Rogawski’s Calculus for AP by Rogawski.(replacement cost - \$162). Besides the hard cover book you will be getting, you will also have online access to the Rogawski book. Please use the following URL:
<http://ebooks.bfwpub.com/rogawskiapet2e.php>
 - The Student Access Code we have been given is: 4cz-kyz-gdy63nbc. There may be a new code given during the year, which I will post on my website.
- You don’t need to buy a review book, but some students may chose to do so for extra review for the AP Test – it can also help you prepare for our unit tests.

Attendance:

To be successful students, you need to be on time to class every day. The school attendance and tardy policies will be adhered to.

Absences:

If you are absent on the day of an exam you will be required to take an equivalent exam THE DAY you return. If you are absent more than one day the exam may be delayed by mutual consent. It is **YOUR** responsibility to make up an exam. If a test is not made up within **one week** of your return a zero grade will be issued.

Grading

Overall Percent Basis:

<u>Homework/Classwork</u> : Includes Homework & Homework Checks	10%
<u>Assessments**</u> : Includes Quizzes, Chapter Tests and Cumulative Tests	70%
<u>Final Exam</u>	20%

The following is the grading scale based on percentage:

A- 90-92%	A 92-98%	A+ 98% and above
B- 80-82%	B 82 -88%	B+ 88-89%
C- 70-72%	C 72-78%	C+ 78-79%
D- 60-62%	D 62-68%	D+ 68-69%
F 0-60%		

Homework

Students are assigned homework on a daily basis (HW assignments can be found on the monthly calendar). The following process is used to encourage students to not only complete **all** of the problems, but also **check their answers** and rework problems as needed, seeking help when appropriate. Due to the fact that the majority of answers to homework assignments are provided for students, and help is available to all students, there is no reason for any student to have less than an A average in Homework.

Homework Check Process:

The day HW is due, I will choose four problems to grade. Students will receive their graded HW the next class. Each assignment is worth 5 points (1 for attempting each problem, 1 point per the correct solution for the four problems selected). No late homework will be accepted.

*Please be advised that it is the student’s responsibility to make corrections to homework **prior** to the homework checks which may require seeking help.*

Attendance is important and is directly related to your success. To be successful, students need to be in class and on time to class each day. The school tardy policy and district attendance policy will be in effect in this class. Students have 2 school days to make-up an assignment due to an excused absence (i.e., if they have an even period, they have until the next even day) and tests **must be made up immediately upon return.**

Integrity/Academic Honesty

Students are expected to do the best they can without any outside assistance. Cheating can be done in many ways including notes, and receiving answers from others before or during an exam. If a student attempts to get an answer or help from another student, both parties will be considered cheating. Indications of cheating such as talking during an exam, wandering eyes, notes programmed in a calculator, use of cell phones, etc. will be handled as cheating. If you need assistance during an exam ask the teacher. Any unfair advantage or indication of cheating on a test or plagiarism of an assignment will result in a zero grade that MAY NOT be made up! You will be referred to the counselor and your parent or guardian will be notified. In other words it is **never** worth it!!

To plagiarize is to use and pass off (the ideas or writings of another) as one's own. This means that when you take credit for someone else ideas, thoughts or words, you are committing plagiarism. This does not just apply to the person stealing the information. If you allow someone to steal your ideas, thoughts or words, you are guilty of academic dishonesty as well.

Academic dishonesty can also occur when a student uses notes, or other materials, during an assessment, test, or quiz, whether or not they were given explicit instructions not to do so.

Any student who participates in any fashion, in any form of academic dishonesty will not only earn a zero on the assignment in question, but may face disciplinary action as well. At the very least, parents will be contacted, and the student in question will receive a disciplinary referral to the office.

THE AP TEST

THE TEST IS TUESDAY MAY 9, 2017 @ 8 am

WE WILL HAVE MANY REVIEWS BEFORE THE TEST (Starting in March)

You don't need to buy a review book, but some students may chose to do so for extra review.

Expectations

Classroom behavior:

Respect each other. If you cause any disruption or show any disrespect you will be asked to leave the classroom for appropriate discipline. My job is to help you and your peers learn, it is the law for you to allow other students to do so.

Text messaging will not be allowed, unless it is an emergency. If there is a family emergency, let me know what is going on before class. During tests, I need to see that all phones have been put away.

As your **teacher**, here is what you can expect from me to help you succeed in this course:

1. I will be prepared to teach each day.
2. The daily objectives and agenda will be posted daily.
3. I will teach the district-approved curriculum.
4. I will be available multiple times throughout the day if you need extra help.

Here is what you, as a **student**, can do to be successful in my class:

1. Come to class on time, prepared to learn each day. The biggest problem for students is making up missed material.
2. Complete your homework on time.
3. Don't Stress Out...Keep Trying
4. Identify a study buddy that you can contact if you are absent from class to get assignments or extra help.
5. Use the student planner/calendar that was given to you at summer check-in to organize your learning and keep track of your assignments.
6. Come to tutorial if you need help.
7. Take responsibility for your learning.
8. Ask Questions Before – During – After Class
9. Take good Cornell notes and don't throw them out (not even until you're done with college)
10. Study before attending class and the review sessions
11. Know your identities for dy/dx 's and integrals
12. Sign-up, pay for the correct **AP Tests BY FEBRUARY!! DOUBLE CHECK**

As **parents** you can help your child by:

1. Taking an interest in your child's studies.
2. Talking with your child each night about what they learned in school and ask to see their notebooks.
3. Helping your child develop good time management strategies.
4. Working with your child to set realistic goals for success.
5. If you see that your child is having difficulties in a class, please intervene immediately – contact the teacher and encourage your child to attend tutorial each morning with the teacher from 8:00 a.m. to 8:25 a.m., set up additional time (schedule permitting) with the teacher
6. Parents, please make sure your child takes advantage of these extra help opportunities. Continually ask about homework assignments. Email me frequently with questions and be sure to check out Infinite Campus for up-to-date grades and missing work.
7. Attending Parent Advisory Council (PAC) meetings and other school events.

I am available for help during tutorial every day, lunch most days, and often after school.

West Ranch also offers a variety of extra help opportunities, including math reviews and Open Library Nights. You can check the school website – www.WestRanchHighSchool.com – for the most up-to-date list of dates and times

I am looking forward to a great year and hope to meet you at **Back to School Night on August 30th!**

Brady Burrill

AP CALCULUS AB
Course Outline Signature Page

(Please note that all information you provide will be kept confidential.)

Student Name: _____

Parent/Guardian: _____

Home phone: _____

Parent/Guardian name and cell phone: _____

Parent/Guardian name and cell phone: _____

Parent/Guardian name and e-mail: _____

Parent/Guardian name and e-mail: _____

Student e-mail: _____

Previous Math Teacher/Grade: _____

From the parent/guardian to the teacher:

Here is some important information that I would like you to know about my child:

From the student to the teacher:

Here is some important information that I would like for you to know about me:

My signature below indicates that I have read and understand the requirements for this class as outlined in this course orientation.

Student signature: _____ date: _____

Parent/Guardian signature: _____ date: _____

Parent/Guardian signature: _____ date: _____