Course Information									
Instructor: Chris Walters		Text	book: <u>Calculus for the AP Course</u>						
Phone: (425) 385–7132			by Sullivan and Miranda						
email: <u>cwalters@everettsd.org</u> Clas			s website: <u>http://www.everettsd.org/jhs-cwalters</u>						
Extra Help Hours: 7-7:30 AM and 2 -	instructional materials can be accessed through Canvas								
Course Description									
AP Calculus AB is equivalent to a first-semester college calculus course devoted to topics in differential and									
integral calculus. The AP course covers topics in these areas including concepts and skills of limits,									
derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to									
approach calculus concepts and problems when they are represented graphically, numerically, analytically,									
and verbally, and to make connections amongst these representations.									
This course will be offered for College in the High School credit through Everett Community College. This									
course will be 5 credits as MATH&151: Calculus 1 at a cost of \$220. Additional information will be									
provided in class and from the link on my website above.									
Learning Outcomes									
LIMITS			DIFFERENTIATION						
• Evaluate limits graphically and us	• Know and use the definition of a derivative								
properties: one-sided limits, limit	nity.	<ul> <li>Apply rules of differentiation:</li> </ul>							
infinite limits, indeterminate form	5,	basic, chain, implicit and inverse							
• Apply limits to understand the be	fa	Apply derivatives to:							
function.	• compute the instantaneous rate of change								
• Use limits to determine continuity	<ul> <li>find the slope of a tangent line</li> <li>analyze the graph of a function</li> </ul>								
INTEGARTION AND THE FUNDA	• solve real-world applications: motion, related								
THEOREM OF CALCULUS			rates, optimization, exponential						
• Understand the definition of a def	• Solve separable differential equations								
involving a Riemann sum	MATHEMATICAL DRACTICES								
• Compute definite integrals using	C	MAINEMATICAL PKACHCES							
methods and the Fundamental Th	• Implement a mathematical process								
	• Connect different mathematical representation								
• Solve net change (i.e. motion), are	• Justify reasoning and solutions								
volume problems using definite if		• Use correct mathematical notation							
• Analyze functions defined by an i	Communicate results or solutions								
Course Outline (AP exam weighting)									
1. Limits and Continuity (10-12%)			<b>0.</b> Integration and Accumulation of Change: The Integral (17, 20%)						
2. Differentiation. Definition and Fundamental Properti	7. Differential Equations (6-12%)								
3. Differentiation:	8. Applications of Integration (10-15%)								
Composite, Implicit, Inverse Functio	9. AP Exam Review (100%)								
4. Contextual Applications of Different	<b>10.</b> Integration and Accumulation of Change								
5. Analytical Applications of Differentiation (15-18%) Integration Techniques									
Grades: <u>http://www.everettsd.org/lms</u>									
Classwork/Assignment: 10% Unit Tests and Projects: 90%									
No changes to grades will be made based on AP Exam results									
Letter A A + B +	В	$\mathbf{B}$ –	C +	C	C –	D +	D	F	
Orade         02.00         80.87	06.07	02 00	70.77	76 72	72 70	60.67	66.60	50.0	
GPA 4.0 3.7 3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.0	



Our mission is to provide a rigorous curriculum that sets high standards and prepares all students for the future.

Classroom Policies & Expectations							
Grading Policy							
Mathematical Explanation for all problems: (may include the following but is not limited to)							
•	Algebraic steps						
•	Verbal explanations						
•	Graphs, tables, or pictures that are clearly labeled.						
•	Calculator entries, when using a calculator for computation.						
•	• If using theorems, properties, or definitions with conditions, you must confirm the need conditions are met.						
•	Correct standard mathematical notation should be used.						
•	Decimal answers should be accurate to 3 places.						
•	• Final answers can be equivalent to those provided.						
Cla	asswork/Assignments (5 points each):	Assessments (100 points for tests, 50 for quizzes):					
•	Expect daily assignments to practice the concepts.	• Comprised of calculator and non-calculator questions					
•	Assignments are due at the beginning of the next class,	• If you are absent the day before a test, you will still be					
	where time will be given to review answers.	expected to take the test.					
•	Assignments will earn 1 point for each problem	• All tests must be completed on the day they are started.					
•	Students are responsible for self-correcting and asking	Typical scoring of questions					
	questions when they don't understand	<ul> <li>Multiple Choice questions: 2 points each</li> </ul>					
•	Late assignments will be accepted until unit test with a	<ul> <li>Short answer questions: 5 points each</li> </ul>					
	10% reduction in score.	<ul> <li>Correct Solution (2 points)</li> </ul>					
•	Excused absences will have 1 week grade period before	<ul> <li>Mathematical Explanation (3 points)</li> </ul>					
	late penalty is applied						
Te	Test Correction Privileges:						
•	Students who are absent (unexcused) on the day of the tes	st will lose the privilege to correct that test.					
•	Student must complete test corrections before the next unit test.						
•	<ul> <li>Corrections will earn back <sup>1</sup>/<sub>2</sub> the points missed up to a max score of 85%.</li> </ul>						
•	<ul> <li>Must be completed in the classroom and not during class time, unless all required daily work is complete.</li> </ul>						
Ex	Extra Credit Opportunity:						
•	Bonus percentage points will be added to each unit assess	sment for the unit's assignments.					
•	• Overall assignment score of 97% or higher earns 3% bonus on unit assessment. 87% or higher earns 2% and 77% or						
	higher earns 1%						
Behavior Expectations							
•	All school wide and district policies as described in the Student Handbook will be enforced.						
•	Students are expected to be respectful towards their peers, teacher, and the classroom.						
٠	A hall pass to allow one student out of the room at a time will be available. Students must sign out and back in and be						
	gone no more than 5 minutes.						
•	No Electronic Devices (cell phone, headphones, etc.) will be allowed during class, except a calculator and a district						
	issued device or equivalent without permission from the teacher.						
•	<ul> <li>Drinks are allowed if the bottle has a closable lid (spill proof).</li> </ul>						
Food is <u>not</u> permitted, unless required for medical reasons.							
Materials							
•	• Textbook: available from the library for checkout.						
٠	• Notebook (paper or digital) of your choice to keep your notes and classwork organized.						
•	• Scientific calculator required. A graphing calculator, such as the TI-83+ or TI-84 is highly recommended and is						
required for those planning on taking the AP Exam.							
Tips for Success							
Yo	You can learn mathematics, but it won't happen by itself. You will have to work at it!						
	1. Participate in class.						

- Take and review your notes each day.
   Attempt all problems assigned and ask about the questions you don't understand.
   Come in for additional tutoring when you first start to struggle.