

# Advanced Placement Calculus (AB):

**Mr. Frossard Room C-14**

The main goals of A.P. Calculus are to learn Calculus and prepare each student to take the A.P. Calculus exam in May. The course requires a diligent effort and continual determination by students. Passing the A.P. Exam is a great goal and accomplishment. A score of 5 on the A.P. Exam is outstanding. Passing the A.P. Exam with a 3, 4, or 5 can give a student from 3 to 7 college credit hours. The class is also helpful in preparing students to take first year Calculus as a freshman in college. A graphing calculator is **required** for the A.P. course and exam in May. I recommend the TI-83, TI-83-plus, or TI-84. The exam has four sections that include multiple choice and free response questions that are done with and without calculators.

AP School Policy: It is expected that all SHS AP Students will take the AP Exam for their respective courses in May. Any students seeking an exemption from the exam must petition the teacher.

A.P. Calculus students are expected to behave in an exemplary manner and are expected to adhere to all policies and rules of the class, Springville High School and Nebo School District. Students are to be on time and ready each class day. No food, drink, candy, hats, bandanas, radios, CD players, toys, video games, cell phones, pagers, I-Pods or other distractions are allowed in the classroom. Students should bring their book, notes, assignments and calculator to each class.

## **Grade Scale:**

<b>A</b>	<b>94-100</b>	<b>C</b>	<b>73-76</b>
<b>A-</b>	<b>90-93</b>	<b>C-</b>	<b>70-72</b>
<b>B+</b>	<b>87-89</b>	<b>D+</b>	<b>66-69</b>
<b>B</b>	<b>83-86</b>	<b>D</b>	<b>61-65</b>
<b>B-</b>	<b>80-82</b>	<b>D-</b>	<b>55-60</b>
<b>C+</b>	<b>77-79</b>	<b>F</b>	<b>0-54</b>

## **Daily Assignments: 20%**

Assignments may consist of book problems, handout assignments, or other class or group assignments. When an assignment is completed in notes, then it is “on-time” the beginning of the next class period and its “deadline” is 3:00 p.m. the next class period after the “on-time” day. Students who are leaving for trips or school activities may get notes early before or after school. Students check their own assignments (using solutions in the back of the book and solutions in the notes) and put 3 particular scores on them (raw score, three-decimal score and score out of 10). “On-time” papers receive an extra point from the instructor if they are in the folder and scored properly. **The general problem from the book should be written on the student’s paper and work must be shown on multi-step problems.** The instructor will monitor and even re-score assignments that do not meet this expectation. **All completed assignments that are not turned in after the deadline date by 2:55 p.m. receive up to 4 points out of 10. Missing assignments receive zero credit. No late assignment may be turned in beyond the next test 1<sup>st</sup> sitting. “On-time” and “Deadline” dates are found listed on the whiteboard in the back of the room.**

## **Notes: 20% (Deadline on 3<sup>rd</sup> sitting for test)**

Notes and Assignments are two separate things.

Notes are due in class during the beginning of class on the day of the 1<sup>st</sup> sitting of each test.

Notes turned in after this date are given a 25% reduction later on the day of the 1<sup>st</sup> sitting and 25% more deducted each calendar school day thereafter. Those with an excused absence on test day only forfeit their 1<sup>st</sup> sitting unless they took their 1<sup>st</sup> sitting early. They may hand in their notes the day they return.

Notes must contain all information, problems, and steps shown on the overhead for full credit. Skipping problems or steps from the overhead material will result in a **reduction of points on note credit.**

**Tests and Quizzes 50% (1<sup>st</sup> sitting in class on or before test date, then 2<sup>nd</sup> and 3<sup>rd</sup> sittings by individual deadlines.) Students who miss any class sitting forfeit that particular sitting.** Students may have up to 3 sittings on any class test, but only one sitting on a quiz.

All 2<sup>nd</sup> and 3<sup>rd</sup> sittings on tests must be started by 2:55 p.m. These sittings should be before or after school; however, tests taken during other class periods must have that particular **teacher's written permission** prior to taking a sitting. Students who do not have a particular class during a period must bring a written note from the counselors explaining the situation. Arrangements must be made with the teacher prior to working on the test. Parents may not excuse their son or daughter to miss another class in order to make up a calculus test during normal school hours.

When quizzes are given, there will be three of them during a chapter. The lowest quiz score of the three may be dropped. The average of the other two quizzes will be used to create a test score. During a term, the lowest quiz score of the set of three scores may be dropped. One test score per term may be dropped (excluding finals). **Quizzes may be taken early, but not after the class has taken them. The dropped quiz/test will only happen after a student completes at least 1 hour helping students in the math lab; otherwise, no dropping will occur.**

**Attendance 10%. Attendance is critical in A.P. Calculus. Missing any day can be very difficult to get caught up.** Students should work with the teacher, make extra efforts to complete any work possible before an absence, and try to work together in **study groups** on extra difficult topics. Students with unexcused "tardies" will serve detention. Unexcused absences result in detention and forfeiture of one sitting on any test missed. The Nebo School District DAF (District Attendance Formula) will be used.

Text: Calculus, Graphical, Numerical, Algebraic: Prentice Hall/Scott Foresman, Addison-Wesley 3<sup>rd</sup> edition

Course:

Chapter 1 (Pre-Calculus) Review on your own.

Chapter 2 (Limits and Continuity)

Chapter 3 (**Derivatives**)

Chapter 4 (Applications of the Derivative)

**Derivative Final Test**-May not be dropped

Chapter 5 (**The Definite Integral**)

Chapter 6 (Differential Equations and Mathematical Models)

Chapter 7 (Applications of the Definite Integral)

**Integral Final Test**-May not be dropped

Review Days with assignments and practice.

AP Test—May 2012

Other topics discussed and assigned after the AP Test in May