COURSE DESCRIPTION: This class is a dual enrollment college level math course. Students may register ($75.00 fee) for MAT 152 Calculus A at USM and receive four semester hours of credit with the same grade earned in PHS Honors Calculus. The course begins with a brief review of algebraic and trigonometric skills followed by an introduction to limit theory and the concept of rates of change. Differential calculus objectives include derivatives and their rules, finding derivatives of polynomial, rational, and transcendental functions, and implicit differentiation. Calculus will be used to solve problems involving velocity, acceleration, and related rates of change. In integral calculus, The Fundamental Theorem of Calculus, indefinite and definite integration, integration by substitution and numerical integration are among the topics covered. Applications of integral calculus will be explored as time permits. Graphing calculators (TI-83+ and up) are required. Graphing utility technology provided on school-issued iPads will also be employed.

CLASS EXPECTATIONS:

- **Attendance** Students are expected to attend class and be on time. Tardiness results in detention.

- **Warm-ups** Each class will begin with a warm-up activity. Instructions will be posted in the front of the room. You are expected to begin working on the warm-up activity when you enter the classroom. Warm-ups will occasionally be collected and count for a homework or quiz grade.

- **Classwork/Homework** To understand and master mathematics you must practice. You are expected to give full effort to all assignments. Look through your notes, text examples and any other resources available to you. When answers are available (odd numbered problems or posted answer keys), you are expected to check your answers to be sure you are working problems correctly. While there will be opportunity for some homework review in class, limited time prohibits a complete re-doing of the entire assignment in class. Therefore, be sure to come to class with specific questions if there is something you do not understand after giving your very best effort.

- **Class Time** You are responsible for your own learning and are expected to be an active class participant: ask questions, take notes, be involved. Class time can not be reproduced so make every effort to attend each class. We will be working on math for the entire block. If you are absent, it is your responsibility to get the notes from a classmate.

- **Quizzes/Tests** Most quizzes and all tests will be scheduled and announced in advance. Test content will be based on quiz content. Therefore, you will want to store your quizzes in a pocket folder or in your notebook and use them to study for tests.
ABSENCES: If you are absent on the day of a quiz or test, see me before school the next morning that you are present to schedule a time to take the assessment. If you are absent for material leading up to a quiz or test, the postponement of taking the assessment is at my discretion. Except under unusual or extreme circumstances beyond your control, you will be expected to take the assessment no later than 3 days following the original date.

· Special Problems/Projects Occasionally we may work on special problems or projects that will allow you to demonstrate your understanding of material you have learned. Depending on the complexity of the assignment, these may be graded as classwork, a quiz or a test.

· Extra Help If you are having difficulty, see me for extra help as soon as possible. Don’t wait until you are far behind and struggling! I am here by 7:30 in the morning and almost every day after school; no appointment necessary during these times. I am not available during lunch. I am available during Block 4 by appointment only.

· Food and Drink You may bring something to eat/drink to class as long as it does not interfere with our learning environment. Here are the rules:

  + Permissible foods are cold snacks in bite size pieces that are kept in a container and do not require an eating utensil. Examples are crackers, carrot sticks, fruit slices, cheese. NOT allowed are pizza, sandwiches, fries, nachos, soup, and the like. The idea is a snack to tide over any hunger pangs so you can focus on learning, not to enjoy a meal during class time.
  + Drinks must be in closed, leak-proof containers. If you can’t turn it upside down without spillage, don’t bring it to class.
  + Pack your food at home in advance. If you are late for class because you were getting something to eat from the cafe, you will not be allowed to bring those items in to class.
  + Permission to have food/drink in class is for your comfort and convenience. It should not inconvenience anyone else so make sure that you clean up after yourself and do not distract others.
  + Failure of individuals to follow these rules will result in the suspension of food and drink privileges for the entire class.

· Electronic Devices As per district policy, all electronic devices (cell phones, mp3 players, computers, iPads, etc.) are to be turned off unless you are directed by me to use the device for instructional purposes. School policy for infractions will be strictly enforced.

· Academic Integrity It is expected that all work you hand in is your own. While it is acceptable to work with a partner on homework assignments, it is unacceptable to simply copy. Cheating will result in a zero for the work and disciplinary action in accordance with school policies.
GRADES:

Your quarter grades will be weighted as follows:

· **Homework/Classwork**  10%
  
  ✪ Posting: Homework/Classwork assignments will be posted on the board and at https://sites.google.com/a/portlandschools.org/daponte/.
  
  ✪ Format: Homework assignments are to be done IN PENCIL. For textbook assignments, your name, the date the homework was assigned and the content of the assignment are to be written in the upper right-hand corner. Homework will be randomly collected, so if you do your homework in your notebook be prepared to rip it out and hand it in.
  
  ✪ Grading: Each homework assignment will be graded on a 0–5 point scale. Full credit will be given when every problem is attempted, all work is shown and proper homework format is followed. No credit will be given if work is not shown.
  
  ✪ Late Assignments: Assignments are normally due at the beginning of the next class. Two late homework assignments may be turned in per quarter for credit. They must be turned in by the end of the last day of the quarter. Otherwise, except for excused absences, there is no credit for late homework assignments.

· **Quizzes**  45%

  Quizzes will be given after completing a few lessons. The lowest quiz grade (above a zero) will be dropped per quarter. In addition, once per quarter, the second lowest quiz grade (above a zero) may be replaced with the unit test score if it is higher. Quizzes CANNOT BE MADE UP.

· **Tests**  45%

  Tests will be given after we have completed a larger unit of material (usually a chapter in the text). The lowest test grade will not be dropped. Failed tests may be re-taken ONCE up to a grade of 70% and must be re-taken within one week of the original test date.

  There are NO extra credit projects available for this course. Your grade will be a reflection of how well you have mastered the material of Honors Calculus within the indicated timeframe.

Your final semester grade will be weighted as follows:

- **Course work** as calculated above:  90%
- **Midterm or Final Exam**:  10%

Your final course grade will be the average of your semester grades.