



Calculus Syllabus 2019 - 2020



Contact Information:

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A Big Picture of the Course: Calculus by nature is a mathematical analysis of how things change. It is very important that you mastered the prerequisites- Algebra, Geometry, and Trigonometry before you take this course. This course will provide a fundamental base for a college level Calculus class, but is not equivalent to a complete college level course.

1st Semester:

- PreCalculus Review
- Limits & Continuity
- Derivatives

2nd Semester:

- Applications of Derivatives
- Definite Integrals
- Applications of Integrals
- Differential Equations

Textbook: Calculus - A Complete Course by Finney, Demana, Waits, and Kennedy, 2nd Edition.

The following are requirements for success in this course:

- 1. Attendance/Tardiness:** MVHS Student Handbook will be enforced.
- 2. Responsibility:** You are responsible for any and all work missed due to excused absences, including field trips, on the day it's due. **Work missed due to unexcused absence(s) will receive an automatic zero.**
- 3. Preparation/HW:** Completion of ALL homework is essential. 5 points for each HW completion.
- 4. Participation:** You are expected to participate in discussions and group work, answer when called upon and be attentive to material being presented.
- 5. Respect:** Respect the views and input of your classmates and teacher.
- 6. Pride:** Take ownership of the things you produce, the knowledge you acquire, and the skills you learn.
- 7. Honesty:** The MVHS Academic Honesty Policy & MVHS Student Handbook will be followed and enforced.

8. Help: Ask your teacher & your classmates. Dr. Johnson is available in her classroom for help before school daily (arriving between 6:45 a.m. and 7 a.m.). Math resource is available during every lunch period. Using a professionally paid tutor is also an option (See tutor list: <http://mvhs.ipeds.org/Subpage.aspx?id=316>).

***We strongly encourage you to visit Math Resource Center for additional help. ***

9. Evaluation:

Semester Grade Breakdown: Test = 45%, Quizzes = 25%, Classwork = 10%, Final Exam = 20%

MVHS GRADING SCALE: A= 90-100%, B= 80-89%, C= 70-79%, D= 60-69%

Extra Credit: MAY be available in limited, structured quantities as decided by the teacher.

POINTS OF EMPHASIS:

1. Daily Materials: Chromebook, notebook, pencils, graphing calculator (TI-84 plus recommended).
ALSO: DRY ERASE MARKERS.
2. You may find that your most useful resources are your fellow classmates. (Similar to college, peer study groups are encouraged!) Don't hesitate to seek help from teachers/resource QUICKLY if your past math skills seem to be rusty!
3. You are expected to complete every homework assignment on time, and you will have ample time in and out of class to do so. Due to the complexity and variation of each problem in this course, even one problem skipped will result in significant point deductions. Every problem is assigned for a reason! ☺
4. Be accountable for every aspect of your classroom and personal performance.

**ALL THOSE LOOKING FOR A "BLOW OFF" SENIOR MATH COURSE,
THIS CLASS IS NOT FOR YOU!**

*****THIS COURSE IS DESIGNED FOR THOSE STUDENTS WHO WANT TO GET A HEAD-START
ON COLLEGE CALCULUS AND WHO HAVE THE WORK ETHIC TO DO SO. IT IS INTENDED TO
FLOW AT A COMFORTABLE PACE, PROVIDED ALL ARE TAKING THE NECESSARY STEPS TO
TRULY LEARN THE MATERIAL
(I.E. PARTICIPATE and DO HOMEWORK).
IT WILL BE PAY OFF!!!*****

#mystudentsrock - Dr. Johnson ☺