

syllabus 2015-2016

Calculus

mt si high school

Why take Calculus?

Calculus is a FUN, rigorous, college level, math class with several benefits:

- Calculus is the foundation for future study in most STEM fields.
- Calculus has clear links to and applications within physics, finance, engineering, and many other fields.
- HS Calculus tends to increase students' comfort level in math courses in college.

General Course Topics

- 1: Prerequisites for Calculus
 - 2: Limits and Continuity
 - 3: Derivatives
 - 4: Applications of Derivatives
 - 5: The Definite Integral
 - 6: Differential Equations and Mathematical Modeling
 - 7: Applications of Definite Integrals
- Additional topics as time allows

Instructors

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Textbook

Calculus: graphical, numerical, algebraic by Finney, Demana, Waits, & Kennedy

Calculators

Both graphing and scientific calculators are required. A TI-83+/84+ graphing calculator is recommended.

Grading Scale

We adhere to the standard Mt Si High School grading scale.

Evaluation

Course grade will be a weighted average of these categories:

Assessments*:	60%
Daily Work**:	25%
Final Exam:	15%

* No Test Retakes will be offered.

Students will be able to earn back up to 50% of the points lost on each test through a designated test corrections procedure.

** Unless otherwise noted, all assignments are due the day after they are assigned. Students have 1 day for every day of an excused absence to turn in work that was assigned during the absence.

✕ Students can turn in 4 late assignments a semester, tracked through late passes.

No Extra Credit will be offered.

Grading

C: adequate work that meets all of the expected criteria

D: work that does not meet the basic criteria

B or A: work that exceeds the criteria and shows initiative

"A" students attend class regularly, turn in all work on-time, bring necessary materials to class, take thorough notes, manage time effectively, participate in class discussions, and consistently demonstrate mastery of the content.

Tentative Pacing Guide for Calculus

<i>September</i>	Complete and assess Chapter 1 Begin Chapter 2
<i>October</i>	Complete and assess Chapter 2 Begin Chapter 3
<i>November</i>	Complete and assess Chapter 3
<i>December</i>	Begin Chapter 4
<i>January</i>	Complete and assess Chapter 4 Semester Final
<i>February</i>	Begin Chapter 5
<i>March</i>	Complete and assess Chapter 5 Begin Chapter 6
<i>April</i>	Complete and assess Chapter 6 Begin Chapter 7
<i>May</i>	Complete and assess Chapter 7 Begin Additional Topics
<i>June</i>	Complete and assess Additional Topics Semester Final

Academic Integrity

Any work that is turned in (homework, test, quiz, etc) should represent only your own thoughts and understandings. You are encouraged to work together on the homework, but the work that is turned in should reflect your own understanding of the material. MSHS Academic Honesty Policy always applies.

What if I am tardy?

Don't make a habit of being tardy to class! Just don't. It is disruptive to everyone around you. If being tardy becomes a habit, we will have a chat about what is causing you to be late to class on a regular basis and come up with a plan to address the problem.

What if I am absent?

If you are absent, please call a friend to find out what you missed, or visit the class website (<http://alingerscience.weebly.com>) for a summary of what we did in class.

So I've read through the syllabus, now what?

Now that you know everything there is to know about the class, here is your first homework assignment: Explain the class policies to your parent(s), then go to the class website, find the post pertaining to the syllabus, and complete the form that is located there. This is due by September 9th, 2015.