

AP Calculus Syllabus

Mr. Dusick
2016-2017

Required Materials

- Text (Provided): Finney, R. (2007). *Calculus: Graphical, Numerical, Algebraic* (3rd ed.). Boston: Pearson Addison Wesley.
- Graphing Calculator (Provided): Ti-83
- 3-Ring Binder/Notebook
- Math Journal

Course Description

This course consists of a full year of work in a college level calculus sequence. AP Calculus AB provides an opportunity for students to receive college credit and/or placement for courses they would normally take as a freshman or sophomore in college. As with any AP course, content is covered at a highly accelerated pace.

After all requisite material is presented, the remaining time will be dedicated to practicing for the AP Calculus exam. After the AP Exam, supplemental material will be presented.

Technology

In this course, students will be required to familiarize themselves with a graphing calculator. Each student will be provided a TI-83 calculator to use both in the classroom and at home. Some assignments and exercises can only be done by utilizing the graphing calculator. Students are welcome to use their own model of graphing calculator (TI-89, Casio FX-9860G, etc.) for this course. However, smartphones and devices that are stylus driven or have a 'QWERTY' keyboard are prohibited.

Assessment Methods

Because AP calculus contains college level content, assessment methods will mirror that of a typical college course. A student's grade will be determined by regularly administered tests (50%), quizzes (25%), and homework (15%). The remainder of each student's grade will be determined by his or her math journal (10%).

Course Content

1. Limits and Continuity
2. Derivatives
3. Applications of Derivatives
4. The Definite Integral
5. Differential Equations and Mathematical Modeling
6. Applications of Definite Integrals

Expectations

Students are expected to:

1. Accept personal responsibility for content mastery
2. Complete all assigned work on-time
3. Behave in a manner that is conducive to learning
4. Actively seek guidance/assistance with difficult material
5. Attend class
6. Check the class website (shamokinmath.wikispaces.com) regularly
7. Maintain an up-to date and insightful math journal

Math Journal Expectations

Self-reflection is an important aspect of being an excellent AP student. Each student will be expected to keep an up-to-date and insightful math journal. The journal will contain the student's thoughts, concerns, and practice logs. A grading rubric for journaling will be provided in class.

Re-Assessment Policy

Students may re-take each test and quiz one time. The highest score that can be earned on a retest or "re-quiz" is a 90%. Students have up to 1 week from the date the assessment is returned to retake an assessment. The higher of the two scores will be counted. The student must come on his or her own time (study hall, after/before school) to retake the assessment.

Student Signature_____

Parent/Guardian Signature_____