

AP CALCULUS AB
Course Syllabus

Mrs. McHugh – Mathematics Department



Contact Information:

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Course Description:

This course provides a complete study of differential and integral calculus. It is designed to prepare students for the Advanced Placement Calculus AB Examination. The course outline completes the recommended topics described by the College Board at a fast and intense pace to guarantee time for practice testing exercises. Students taking this course should plan on taking the Calculus AB Advanced Placement Exam in May.

Classroom Procedures, Rules and Expectations:

1. Students are to be on time to class each day.
 - ✓ Lateness will only be excused with an appropriate pass from a teacher or the office. Refer to the student handbook for further information on Central Bucks' class lateness and cut policies.
2. Students are expected to come prepared to class each day.
 - ✓ Students are expected to have their notebook, pencil(s), calculator and assignments completed for each class period.
3. Students will show respect to everyone and everything in the classroom.
 - ✓ Simply put, treat others, as you would like to be treated in return.
4. Students are expected to be an active part of the classroom.
 - ✓ Raising hands, volunteering and your class participation are essential to the learning process. Take advantage of the opportunity to make a difference in your own education. Please feel free to ask questions at any time. Often times, many other students in the class have the same question and it should be addressed.
5. **Absentee Policy:** In the case of an absence making up missed work is solely the responsibility of the student. Students missing the day of an assessment, who did not miss any instruction prior to the assessment, must take the assessment upon returning to school. All other missed assignments must be made up in the same number of days in which the student was absent. This includes all absences both excused and unexcused.
6. All other school rules highlighted in the students' handbook apply in my classroom, especially those policies that address **academic integrity, classroom discipline, appropriate school dress and cell phone usage.**
7. **Calculator Policy:** A graphing calculator is mandatory for this course. A TI-84 or better calculator is preferred; the teacher will model problems using a TI-84 calculator. While no specific brand or model is endorsed some restrictions apply to calculator use for the course and the AP Exam. Any calculator with a Computer Algebra System (CAS) is not permitted on the Central Bucks Final Exam. Any calculator with a QWERTY keyboard or internet or Bluetooth capabilities is not permitted on the Central Bucks Final Exam or AP Exam. Students must have their own calculator for this course. The following site may be helpful in choosing the appropriate calculator: <http://tinyurl.com/calcompare>

Grading Policies:

1. **Homework:** Is assigned daily and should be completed to reinforce concepts from class. Homework will be checked and noted in the gradebook on a scale of 0-2 (0 – Incomplete, 1 – Partially Complete, 2 – Complete). Homework, while checked for completeness and recorded as a reference of work habits, will not count toward the course grade unless announced and explicitly assigned as a graded assessment.
2. **Quizzes/Tests:** Tests and Quizzes are announced in advance, if a student is absent only for the day of the assessment and does not miss instruction they are expected to take the assessment upon returning to school. Please check Infinite Campus and the teacher website for all assignments.
3. **Cheating Policy:** Any student caught looking at another student's paper, talking to another student, passing anything to another student, signalling to another student or using unauthorized materials during Tests or Quizzes will receive a **zero**.

Marking Period and Final Course Grade Calculations:

1. Marking Period Grades will account for 80% of the final course grade. Marking Period Grades will be determined as follows:
 - ✓ Summative Assessments will account for 90% of the marking period grade. Summative Assessments include Tests, Quizzes and Projects.
 - ✓ Formative Assessments will account for 10% of the marking period grade. Formative Assessments include Warmup/Exit Activities, in class Group/Partner assignments, specific graded Homework and Classwork and Reflective Writing Assignments.
2. The Final Exam will account for 20% of the final course grade. The Final Exam consists of two components as follows:
 - ✓ Performance Assessments: Two assessments will be given throughout the course and will count for 30% of the final exam grade (or 6% of your overall grade).
 - ✓ Multiple Choice: There will be an exam at the conclusion of the course that will count for 70% of your final exam grade (or 14% of your overall grade).

$$\begin{array}{rcccccccc} \text{FINAL GRADE} = & 2^{\text{nd}} \text{ MP} & + & 3^{\text{rd}} \text{ MP} & + & 4^{\text{th}} \text{ MP} & + & \text{Final Exam} \\ & 26\frac{2}{3}\% & & 26\frac{2}{3}\% & + & 26\frac{2}{3}\% & + & 20\% \end{array}$$

Suggestions and Tips for the upcoming Semester:

- ❖ AP Calculus AB covers an extensive amount of material and moves at a pace much faster than previous math courses. This course will require a student to put more time into this course reviewing, synthesizing, analyzing, and completing assignments than other math courses. To have a successful semester, keep the following in mind: DO your homework regularly, LISTEN carefully, TAKE good notes and USE them. Success in this course requires students to be resourceful!
- ❖ Students are encouraged to come in for extra help before concepts and skills become problematic, not only after receiving a grade on an assessment. Time for extra helps will be announced as the course progresses.
- ❖ It is recommended that students find a study partner or create a small group to study, review, and complete homework assignments. However, there is a distinct difference between working together and plagiarizing someone else's work. Students are encouraged to find a partner and meet together often to work on homework and/or study. This study group will also benefit students in the case of absences as a resource for missed class notes and assignments.

AP Calculus AB Exam Information

Date: Tuesday May 14th, 2019

Time: 7:15am

Cost: \$94.00

Please make all payments using My Payments Plus. Due dates for exam fees will be announced in class.

AP Calculus AB Exam Components

- ✓ Section 1: Multiple Choice | 45 Questions | 50% of the Final Exam Score
 - Part A: 30 Multiple Choice Questions | 60 Minutes | Calculator Not Permitted
 - Part B: 15 Multiple Choice Questions | 45 Minutes | Graphing Calculator Required
- ✓ Section 2: Free Response | 6 Questions | 50% of the Final Exam Score
 - Part A: 2 Free Response Questions | 30 Minutes | Graphing Calculator Required
 - Part B: 4 Free Response Questions | 60 Minutes | Calculator Not Permitted





After-School help is available and will be announced as the year progresses!

By signing below, both the student and the parent/guardian are stating that they completely understand and agree to each of the rules and procedures detailed in the course syllabus and posted on the course website.

Thank you in advance for your cooperation!

Sincerely,

Mrs. McHugh

Student Signature: _____

Date: _____

Parent/Guardian Signature: _____

Date: _____

Textbook Name: Calculus: Concepts and Contexts

Textbook Cost: \$77.00

Textbook Serial Number: _____