

Course: Advanced Placement Calculus (AB)

School Year: 2010-2011

Instructor: Mr. Daniel Lemay

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Oxbow Mission Statement: In partnership with students, parents and community. Oxbow High School is committed to developing healthy individuals who are able to gain intellectual, social, and civic skills and apply them in a complex, changing world.

Course Introduction: This course is designed to prepare students for the Advanced Placement Calculus AB exam which is given each year in May. It consists of the following parts:

- Differential Calculus - Topics included in this course are rates of change, limits and continuity, derivatives and applications of derivatives.
- Integral Calculus - This course is a continuation of differential calculus. Topics included in this course are definite integrals, differential equations, mathematical modeling, and applications of definite integrals.

Learning Outcomes: To introduce students to the major concepts of a first-semester college calculus course, with the overall objective of preparing the student for the Advanced Placement exam in May.

Course Expectations: To be successful you will be able to solve a variety of problems and make connections between the mathematics and the situations presented. You will express mathematical concepts, results, and problems graphically, numerically, analytically, and verbally. Making connections among these representations is also important. You will demonstrate the ability to work both independently and cooperatively as part of a team. I expect work to be completed and submitted according to deadlines.

What to do if you are absent: Make-up work is expected to be completed within a time frame comparable to length of student's absence. Modifications to this expectation may be made on an individual basis. If you miss class for a school related absence, tests and quizzes will not be postponed.

When can you get outside of class help? Getting help earlier is better than later. At this time I do not know what my after school meeting schedule looks like, however, if you need help, ask. Helping students takes precedence over attending a meeting in most instances. I'm usually at school by 7:45 am and rarely leave before 4:30. Emailing questions is also a possibility.

Methods of Evaluation:

Grading Criteria:

Various points will be awarded for problem sets, homework, quizzes and tests.

A running total of points earned and points possible will be kept for each student. A percentage will be calculated by dividing the points earned by the points possible. Letter grades will be assigned as outlined in Oxbow's Handbook for Students and Parents

See student handbook for letter grade equivalents.

Cheating and Plagiarism: Academic dishonesty such as cheating, willful plagiarism or misrepresentation in any way of one's work or the ideas, arguments, facts or phraseology of another will not be tolerated. One's quotation, or unacknowledged paraphrasing of another's sentences, phrases, key works, of someone else's ideas or arguments is plagiarism. Please refer to the Student Handbook regarding disciplinary action.

Resources used: Calculus, Graphical, Numerical Algebraic, by Finney, Demana, Waits, and Kennedy (1999); Addison-Wesley. Other outside materials as deemed appropriate. (Note: as per school policy, textbook must be covered).

Required materials list:

A three-ring binder just for math, pencil or a black/blue pen., a TI-83 or TI-84 series graphing calculator.

Student Expectations: Students will be asked to be active participants in class valuing both their own contributions as well as the contributions of others. Students will arrive in class on time, prepared to work, with a pencil, notebook, textbook and calculator. Students will be expected to take notes on topics that can assist with their independent work. All assignments, independent or in class, will require supporting work be shown. No late assignments will be credited. Make-up work is to be completed within a time frame comparable to the length of a student's absence. Modifications to this expectation may be made on an individual basis. Students will be provided with a weekly assignment sheet that will allow them to remain up-to-date with the class process in spite of absence.

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Late for class: If you are not in the room on or before the second bell rings and do not have a pass from the office or a faculty member you will be marked tardy. Chronic tardiness will result in disciplinary actions.

Parents/Guardians: What you can do to help your child meet the goals chosen above are to:

- Check to verify homework/projects are completed. I publish weekly assignment guides. These are also available on the web at <http://www.danlemay.net>. Click on the appropriate course link
- Do not hesitate to email/call me if you have any questions or concerns.
- I am almost always available for outside help after school. Sooner is better than later. Troubles in mathematics snowball fast.
- Access the Oxbow Parent Portal once per week to follow your child's progress.

Please detach, sign and return this page:

Advanced Placement Calculus (AB)

Mr. Lemay

The signatures affixed below indicate that this course syllabus has been read and its contents understood. It is further recognized that the material outlined above is accurate and will be adhered to as closely as possible. Circumstances beyond the control of the teacher and/or administration may dictate the need for additions, deletions, or alterations to the content of this syllabus.

Student Name (*please print*) _____

Student Signature: _____

Date: _____

Parent Signature: _____

Date: _____

Make sure to record this somewhere so you can remember it later. I should have this online grading system set up with in two weeks.

**Due signed and returned on or before Tuesday September 7, 2010
(25 point HW Assignment)**