CORNING COMMUNITY COLLEGE
(Horseheads High School ACE)
MPTE
Fall 2014

Course Prefix/Number: Math1610, Calculus I
Instructor Name: Anthony Bo
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Instructor Office Location: Horseheads High School – Room 217
Instructor Office Hours: Monday – Friday: Period 5-6 (10:46am – 12:06pm)

Introduction:
ACE Calculus I (Math 1610) is a college level course and will be taught as such. In order to successfully meet the objectives of the course it is expected that students will take on certain responsibilities. These responsibilities include, but are not limited to:
- Keeping a neat and complete notebook
- Attending every class
- Completing every assignment
- Seeking out additional help beyond that provided during class
- Maintaining the highest degree of academic honesty

Text Book:
Larson, Ron, and Robert Hostetler, and Bruce Edwards. Calculus of a Single Variable, 8th edition. Boston, MA: Houghton Mifflin, 2006.

Calculator:
A graphing calculator is required. TI-83/84 is highly recommended. Calculators with Computer Algebra Systems are NOT allowed (TI 89, TI 92 etc).

Course Objectives:
- Demonstrate understanding of the definitions of limit, continuity, derivative, and the definite integral
- Determine limits of functions algebraically, numerically, and graphically
- Determine the derivatives of algebraic and trigonometric functions involving sums, differences, products, quotients, and compositions
- Solve application problems involving the derivative
- Determine indefinite integrals of basic algebraic and trigonometric functions
- Solve application problems involving the definite integral
- Use a Computer Algebra System (CAS) to solve application problems involving limits, derivates, and integrals

Homework & Board Problems:
A homework assignment sheet will be provided at the beginning of each unit. Each assignment will consist of 4 even numbered exercises and a varying quantity of odd numbered exercises.

Homework will be collected and graded as follows: Even numbered problems will be worth 2 points each plus an additional 2 points will be awarded for the completion of the odd numbered exercises. *Exercises will be considered incomplete if no work is provided.*

It is the students' responsibility to ensure that homework is done completely and correctly. Due to limited class time, the discussion of solutions to the odd numbered problems will be minimal. Therefore, it is expected that students will seek help outside of class for the odd numbered problems.

Four Students will be selected at random at the beginning of class to provide solutions to the even numbered problems (Board Problems). A separate grade will be given at the end of each marking period based on the completion of the board problems.

Tests & Quizzes:

Quizzes will be given regularly and they may be unannounced. *Quiz questions will typically be similar to questions assigned in the homework.* Therefore, it is to the student's advantage to maintain complete and correct homework assignments.

A unit test will be given at the end of each unit.

Competency Assessments:

Competency assessments will be given through out the course. There are three types: Component Competency, Final Exam Competency, and Lab Competency. Details on each type of competency can be found on the "Competency Assessment" handout.

Final Exam:

A three hour final exam will be administered at the end of the course. **The exam will take place on the first day of Regents testing.** The final exam will consist of one section created by CCC and two additional sections created by the HHS math department.

Grades:

Tests	60%
Quizzes	25% (*minimum 3 quizzes given = lowest quiz grade dropped*)
Homework/Labs	10%
Board Problems	5%

Final Course Grade: Average of 4 marking period grades + 1 final exam grade.

Academic Honesty:

Academic dishonesty and cheating will not be tolerated. Students are expected to follow the academic honesty guidelines set forth by Horseheads High School. Disciplinary actions for cases of cheating and plagiarism will be handled in accordance with Horseheads High School policy.

Additional Help:

I am available for additional help during my 5/6 lunch period and after school. Students wishing to meet with me after school should make arrangements with me in advance. My teacher web page, which can be accessed through the Horseheads High School web site, contains links to a variety of additional calculus resources.