**Calculus**

**Mrs. Holmann**

**Course Outline Spring Semester 2012-2013**

Email: [mholmann@lovett.org](mailto:mholmann@lovett.org)

Sections: Period 4 and Period 5 Calculus

Room: 301

Office Hours: During lunch on “C” Day and “F” Day in Room 301

Additional office hours by appointment. Please email me in advance.

Tutorial: Students are encouraged to see me during my office hours. If that is not possible, they may see Dr. Butts or Ms. Moss during the regular tutorial period.

Webpage: mholmann.weebly.com

**Materials:**

Bring the following materials to class **daily**.

* pencils and eraser (math should only be written in pencil)
* loose-leaf lined paper
* colored ballpoint pen for corrections
* 3-ring binder to organize notes, handouts, homework, quizzes, and tests
* ruler
* TI-83 or TI-84 graphing calculator
* Prior handouts
* Students may leave their textbooks at home

**Topics:**

We will study the following concepts from Integral Calculus from Chapters 4, 5, and 7:

* Using rectangles to approximate the area under a curve
* Finding the exact area under a curve
* Definite and indefinite integration
* The relationship between integral and differential calculus
* Finding the derivative and integral of a variety of functions
  + logarithmic, exponential, and trigonometric
* Finding volumes of revolution
* Slope fields

**Assessment:**

A student’s semester grade is based on the following weighted categories:

* 15% Daily Work (includes homework, problem presentations, and calculus journal entries)
* 20% Quizzes (announced, unannounced, and supply checks)
* 45% Tests and Projects
* 20% Cumulative Final Exam

Homework will be assigned daily and is due the following class period. Once homework has been collected, **no late work will be accepted.** Each piece of homework is expected to serve as a stand-alone document which includes the original problems, appropriate work shown, and boxed solutions. Homework is typically graded based on completeness. Home must be completed in pencil and be ready at the beginning of class. Students are expected to check work against provided answers and correct missed problems.

Absences  
Missed assignments and assessments may be made up only in the case of excused absences and must be completed in a timely manner. If you know you will be missing class, make-up arrangements must be made in advance of your absence.

**Class Rules:**

As a Calculus student, you are expected to:

* Be RESPONSIBLE for your own learning
  + Check and correct your work against provided answers
  + Seek help during office hours / tutorial as needed
* Show RESPECT and consideration for your classmates and teacher
  + Arrive to class promptly
  + Be supportive of everyone’s learning
  + Bring all necessary materials
* Exhibit complete academic HONESTY at all times. Students will be expected to write the honor pledge in its entirety on any major assessment.
* COMMUNICATE effectively in both written and oral forms *(this includes showing work!)*
  + Answers without supporting work will not receive credit.
* Actively PARTICIPATE in class
* Distinguish between times when the use of calculator technology is appropriate and when you are expected to do things out “by hand”
* Refrain from bringing food or drink (other than water) to class
* Keep cell phones off and away
* Adhere to all of the polices and rules outlined in the Student Handbook
* Routinely check your Lovett email account and the calculus class webpage for updated info
* Use computers and calculators only for class-specific purposes during class time