

Calculus
2008-2009

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Course Description

Introduction to differential calculus: functions, limits, continuity, derivatives, differentiation rules, derivatives of the trigonometric and transcendental functions, related rates, extrema, curve sketching, optimization. Applications to problems in science and engineering. Introduction to integral calculus: antiderivatives, definite integral, area under a curve, Fundamental Theorem of Calculus, integration of exponential, logarithmic, trigonometric, inverse trigonometric and hyperbolic functions, volume and surface area of solids of revolution, arc length, and methods of integration. Also includes L'Hopital's Rule and Improper Integrals. Applications to problems in science and engineering. Use of graphing calculators will be an integral part of the course using the TI-89 Titanium calculators.

Grading Procedures

Your grade for this class will be assigned based on the following criteria:

- ✦ ***Homework/Class work*** (30%)-Homework will be assigned nightly and is expected to be complete when class begins. Homework is critical in this class as doing the problems on your own, tells us how well you understand the material for that days class. If absent homework will be posted on the front board. **It is your responsibility to make up work.** I can not remind everyone so when you return, get your assignment and turn it in the next day. No late work will be accepted without an excused absence. Failure to do the assigned work will reduce your chances for getting credit in this course.
- ✦ ***Tests and Quizzes*** (60%)-There will be a quizzes and tests throughout the class, approximately one per chapter. These will cover the material for the current chapter and material from the past. Make-up Tests and quizzes may be made up with an excused absence only. If you miss a quiz or test day, meet with me to set up a good time. You have two days after you return or no credit will be awarded. Test may be traditional, presentations, group work, open or closed note.
- ✦ ***Daily Grade*** (10%) Points will be awarded for being in attendance, following all rules, being prepared, participating in class, having no discipline problems, etc. Points may be awarded or taken away at my discretion. Obviously you need to be here and doing what is required of you to pass the class. Hopefully this will not be an issue.

Receiving Grades

The grading scale here at the Delaware Area Career Center is as follows (based on 100%)

A+ 100-97%	A 96-93%	A- 92-90%
B+ 89-87%	B 86-83%	B- 82-80%
C+ 79-77%	C 76-73%	C- 72-70%
D+ 69-67%	D 66-63%	D- 62-60%
F below 60		

I will provide you a weekly grade sheet, usually on Tuesdays that will update you on your progress.

Required Materials

The following are the materials that you are required to have each day:

- ✚ **Calculus Textbook-** You will need your book each day and it is required to be covered. Periodically I will do book checks that will count towards the daily grade portion of your grade.
- ✚ **TI 89 Graphing Calculator-** If you have one, bring it each day, if you do not have one, one will be assigned to you for the year. The calculator is your responsibility for the year and is expected to be returned in the condition you received it.
- ✚ **Pencil-** No assignments or tests may be done in pen, but you may take notes in pen. I will not give out pencils.
- ✚ **Math Journal-** You are required to purchase a composition book to write your journal entries into. If you think this will be an issue, see me.
- ✚ **Notes-** Bring whatever you write notes in because we will work everyday!

Classroom Rules

You are to follow all rules for the school found in your agenda at all times. In addition the following rules will apply to my classroom. The overriding expectation in the class is respect: respect yourself, other students, for the teacher, school property, and anyone else who is in our classroom.

- *Everyone should be in their seat and ready to work when class begins.* This means having your materials, using the restroom, sharpening pencils, and socializing should be completed before class begins.
- *Bring materials to class everyday.* You will not be permitted to get any materials once class begins. This includes paper, book, pencil, and calculator.
- *No one should disrupt the learning process in any way, shape or form.* This includes, but not limited to, talking out, passing notes, taking others' possessions, and throwing objects.
- *If quiet time is given, you are to work on your math assignment.*
- *Do not leave the classroom until you are dismissed.* Remember the teacher ends class, not the bell.
- *If you must use the hall pass, get permission first.* I will honor reasonable requests to use the hall pass, but will revoke that privilege for students who leave without permission or misuse the hall pass. Final say is mine. No passes will be given when I am in the middle of a lecture or class discussion.
- *All written work is to be done in pencil; no work in pen will be accepted.*
- *Use the computers for what we are doing.* If we are working in the computer lab, you need to do what you are told and not be off task. This means no internet surfing, checking email, etc. Any violation of this rule could lead to a zero for the computer portion of your grade and/or an office referral.
- *Work quietly when doing group work.* In this class we will be doing several group activities in which you will work with classmates. When working in groups please try to speak so only your group can hear you. Work within your group to solve whatever assignment you are working on.
- *No sleeping in class.* Sleeping in class will result in a **zero for the week** on your daily grade. Additional violations will result in detentions and office referrals.
- *No food or drink permitted in the classroom.* This is a school rule that is not up for discussion. If you have drinks or food, they must be thrown away in the commons, not brought here.

Rules Violations

Any violation of these rules will result in escalating consequences.

- **First Violation-Warning**—I will warn you once if a rule is being violated to give you the opportunity to correct it. You will automatically lose all points for the day.
- **Second Violation-After school detention**—If you continue to violate a rule you will be assigned an after school detention with me for 30 minutes the following Friday. You will need to provide your own transportation. Failure to serve a detention will result in an office referral. Loss of points for the week.
- **Third Violation-Office referral and escalating discipline action.**

Class Schedule (subject to change)

Quarter 1

Chapter 2 Limits

Chapter 3 Differentiation

Quarter 2

Chapter 4 Applications of Differentiation

Chapter 5 Integration

Quarter 3

Chapter 7 Applications of Integration

Chapter 8 Integration Techniques

Quarter 4

Chapter 6 Differential Equation and Slope Fields

Additional Help

There are several ways to receive help if you need it. The most important thing to remember is that everyone will have questions, please feel free to ask me anything about our course, no matter how simple or small. If you need extra help I am available before school (7:30ish). Also there is a tutor room available every period of the day for you to get help.

I look forward to a great year; please see me with any questions or concerns!