

# Syllabus Of MATH1710.001 (Cal1), Spring 2013:

<p><b>INSTRUCTOR:</b> KOSHAL DAHAL</p> <p><b>Personal Site:</b> <a href="http://www.math.unt.edu/~koshal">www.math.unt.edu/~koshal</a></p>	<p><b>COURSE:</b> MATH 1710.001, Calculus I</p> <p><b>Text Book</b> (Recommended): Calculus by Briggs and Cochran, first edition.</p> <p><b>MyMathLab</b> (Required) --Textbook is included online in MyMathLab.</p> <p>(Since MML also contains the ebook version of the Briggs and Cochran textbook, you do not need to purchase the hard-copy book. Students should purchase access codes to MML, either at the bookstore or online, and register for the appropriate course using the course ID that I provide).</p> <p>The MML course ID for this course is: <b>dahal99766</b></p> <p>This class will NOT use blackboard!</p>
<p><b>Office:</b> GAB 441 (Opposite to MathLab)</p> <p><b>Office Hours:</b> Tue: 11:00 - 1:30pm Wed: 5:00 – 6:00pm Th: 8:30pm – 9:00pm</p> <p><b>Email Contact:</b> <a href="mailto:KoshalDahal@my.unt.edu">KoshalDahal@my.unt.edu</a></p> <p>For emergencies, not in lieu of attendance. Allow one (1) business day for reply. <b>Include course name, number &amp; your full name</b> in the subject header. Email without this information may not get opened! Students should use office hours for help with class materials and may request extra office hours.</p>	<p><b>MATH LAB:</b> GAB 440 (Opposite to my office) Web site: <a href="http://www.math.unt.edu/mathlab">www.math.unt.edu/mathlab</a> Go to Website for hours of operation. The MathLab provides help for HWs. No appointment necessary, just walk in for help.</p>
<p style="text-align: center;"><b>MyMathLab (Required!):</b></p> <p>Students must register in MyMathLab (MML) by the 2<sup>nd</sup> class of the semester and must purchase the MML by the end of the temporary access period, 17 days after the beginning of the semester. Students who have not purchased MML by the end of the temporary access period may be administratively dropped with the possibility of no refund. Students will NOT be given extensions for any missed assignments for any reason <b>(Not having access to the MML is not an exception!).</b></p>	
<p style="text-align: center;"><b>COURSE DESCRIPTION AND PREREQUISITE:</b></p> <p><b>(4 hours):</b> Limits and continuity; derivatives and integrals; differentiation and integration of polynomial, rational, trigonometric, and algebraic functions; applications, including slope, velocity, extrema, area, volume and work. <b>Prerequisite:</b> MATH 1650; or both MATH 1600 and MATH 1610.</p>	
<p style="text-align: center;"><b>ATTENDANCE AND GRADING POLICY:</b></p> <p style="text-align: center;"><b>HWs (MML &amp; Written) : 20%</b> (MML HW: 8%, Written HW: 12%) <b>Three Tests : 60%</b> (20% each) <b>Final Exam : 20%</b></p> <p><b>Attendance is mandatory!</b> Students are responsible for all information given in the class, regardless of his/her attendance. NO late homework accepted for any reason! No make-up HWs &amp; Tests will be given. <b>Four (4) or more absences constitute nonattendance.</b> Beginning <b>Monday, February 25</b>, instructors MAY drop students with grade of WF for nonattendance till <b>Friday, April 19</b>. Grades posted in MyMathLab are for your record-keeping purposes only. Your final course grade is determined by the criteria explicitly stated on this syllabus. Grades are not wages; they are not intended to</p>	

reflect how hard you've worked or the goodness of your intentions. Grades reflect your proficiency of the course content as you have demonstrated them on the evaluation criteria. Please take special note that "going to graduate in this semester," "extra credit," "hiring tutors," "needing it for scholarship," "I didn't know what was required," "tried really hard," etc. are NOT any part of the grade assignment process! **Expect no extra credit or bonus assignments.**

### **HOMEWORKS:**

There are two types of HWs: MML HWs & Written HWs. A majority of the homework is in MML. You have to do it online within the due date. You have five (5) attempts per problem-type for each online problem in MML. Using the "Help Me Solve It" feature uses one attempt. Use the attempts carefully so that you can earn a 100% on each assignment. Besides the MML HW, you will have the Written HWs. Each week you will hand-in in class some additional problems.

The Written HWs will be assigned at my personal web site at [www.math.unt.edu/~koshal](http://www.math.unt.edu/~koshal), after each class has been taught and be strictly due before the next class starts, in class. Please DO consider seriously these instructions on how to turn-in your HWs to be graded: Write the HWs #, Section #, & Problem # clearly. Put the final answer in the box. Arrange the Hw-Answer sheet in order, STAPLE them and write your NAME legibly as last/first (according to the university roster). I will drop two lowest Handed-in HWs & two lowest MML HWs before computing each average.

### **QUIZES (online):**

At the beginning of the semester, you must complete two online review quizzes in MyMathLab to determine whether you are ready for the Calculus.

### **TESTS & GRADING POLICY:**

**TESTs: Three (3) in-class exams and a comprehensive Final exam are planned for this semester.** Count your points on each test to be sure the totals are correct. Keep a record of all your scores. If you think that your work has been graded incorrectly, ask for a re-grade immediately after receiving the exam back. Your entire exam will then be re-graded, but be advised that you may lose points or gain points on any problem while re-grading, including but not limited to the problem you ask about. **Each exam is evaluated at 20% of the course grade.**

**NO MAKE-UP EXAMS WILL BE GIVEN!** An exam may be taken **prior** to the scheduled date under genuine reason (needs Instructor's verification!). You must request for this accommodation via email at least one week prior to day you wish to take the early exam. In the event of a schedule conflict with a university function, dental/physician's appointment, wedding, formal, or whatever, the **student must take the test early**. If a student does not take a scheduled exam, a **zero (0)** will be recorded for that exam and a notice may be sent through the registrar's office.

**The following schedule of the three in-class tests is tentative and is subject to capricious changes in case extracurricular events deemed sufficiently important to the upper administration.**

#### **Content and dates are tentatively scheduled as follows:**

Test 1: (Chapter 2, & Sections 3.1-3.5) – **(Week of Monday February 11)**

Test 2: (Sections 3.6-3.8, & Chapter 4) – **(Week of Monday March 18)**

Test 3: (Chapters 5, & Sections 6.1-6.5) – **(Week of Monday April 22)**

### **FINAL:**

**The Final exam is mandatory!** You may replace your lowest test score with the final exam score if the latter is higher. But, if you miss an in-class exam, a zero will be recorded for that exam grade and your final exam score will NOT replace that zero. So do NOT miss any exams. If you receive a zero for cheating on an exam, the final exam score will NOT replace that zero.

**The Final exam score count as 20% of the course grade.** You are not allowed to use calculators on any tests

except Final. You may use a TI-84/85 Calculators for only a portion of the Final Exam. Also NO Cell phone is allowed to use as a calculator during any exams, including the Final.

**The Comprehensive Final Exam date and time: Tuesday, May 7, @ 6:30pm-8:20pm, @ ENV 115** (regular classroom)

**GRADE ASSIGNMENT:**

A: [90%, ∞);      B: [80%, 90%);      C: [70%, 80%);  
D: [60%, 70%);      F: [0%, 60%).      **Note: 59.9% is an F.**

Students may access their **Final Semester grades online at:** [www.my.unt.edu](http://www.my.unt.edu)

**DISRUPTIVE BEHAVIOR:**

On any day, if you disrupt the class you will be asked to leave the classroom and marked absent. You may also be reported for further disciplinary actions. Disruptive behaviors include --but are not limited to -- talking, making inappropriate jokes, using phones in class, leaving class to answer phone, or performing other tasks that are not related to class work.

**ACCOMODATION FOR STUDENTS WITH DISABILITIES:**

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at <http://www.unt.edu/oda>. You may also contact them by phone at 940.565.4323.

**NOTES: - (I reserve the right to change this syllabus as necessary throughout the semester)**

**This syllabus is subject to change as the instructor deems necessary!** Any/all changes will be announced during regular class time and you are responsible for being aware of any changes I announce in class. It is the responsibility of the student to attend each scheduled class to be informed of these changes. **Students** are responsible for meeting all university deadlines (registration, fee payment, prerequisite verification, drop deadlines, etc.). See the printed Schedule of Classes and/or University Catalog for policies and dates. Please, visit <http://essc.unt.edu/registrar/schedule/spring/calendar.html> for details.

**SECTIONS TO BE COVERED:**

Chapter 2: sections 2.1-2.6;  
Chapter 3: sections 3.1-3.8;  
Chapter 4: sections 4.1-4.8;  
Chapter 5: Sections 5.1-5.5;  
Chapter 6: sections 6.1-6.6.

**DROP POLICY:**

If the student is unable to complete this course, it is his/her responsibility to formally withdraw from the course. The student may do so through the Registrar's Office after obtaining the necessary signatures of the instructor. The last day to drop a class with an automatic "W" is **Friday, February 22**. The last day to drop a class with "W" or "WF" is **Tuesday March 26**. "WF" is averaged into your GPA as an "F." If the student does not properly withdraw from the course but stops attending, s/he will receive a performance grade, usually an F.

## PROGRESS REPORT:

Students needing progress reports completed/signed for athletics, scholarships and/or any other organization must attend office hours to get them completed.

### SUMMARY OF KEY DATES FOR 2013 SPRING:

January 14, Monday

**Classes begin.**

January 15, Tuesday

Last day to register for Spring 2013.

January 21, Monday

Martin Luther King, Jr. Day - University closed.

January 28, Monday (Census date)

Last day to drop a course (not withdrawing from the semester) and receive refund, Subsequent drops require instructor's written consent.

January 29, Tuesday

Beginning this date, a student who wishes to drop a course must first receive written consent of the instructor. A grade of W is assigned.

February 22, Friday

Last day to drop a course or withdraw from the semester with a grade of W for courses that the student is not passing. After this date, a grade of WF may be recorded.

February 25, Monday

Beginning this date, instructors may drop students with grade of WF for nonattendance.

March 7, Thursday

Mid semester

March 11 – 17 (Monday – Sunday)

**Spring Break!!!**

March 26, Tuesday

Last day for a student to drop a course with the consent of the instructor,  
The grades of W or WF may be assigned.

April 8, Monday

Beginning this date a student may request a grade of "I", incomplete, a non-punitive grade.  
(See the undergraduate catalog for more information)

April 19, Friday

Last day for an instructor to drop a student with a grade of "WF" for non-attendance

April 27 - May 2 (Saturday – Thursday)

Pre-finals week

May 4 - 10 (Saturday – Friday)

**Final examinations week;**

**Term Ends.**

### **CLASSROOM ETIQUETTE:**

Appropriate behavior is expected of all students taking this course. Arrive to class promptly and do not leave until the scheduled ending time of the class. If you must arrive late or leave early, please do so as discreetly as possible and take a seat near an exit. **I know you have a cool phone but no one likes to see or hear your cool phone in class! So please silence your phones** (iPhones/cell phones)! Absolutely NO Texting! **Turn off all non-medical electronic devices such as laptops, kindles etc... & take-off the headphones. Do not read newspaper or work on any unrelated assignments during class.** I prefer that you NOT eat during class.

### **EXAM ETIQUETTE:**

- Place all papers, textbook, notes, etc. in a backpack or a book bag and close it securely.
- **Turn off** all electronic devices (unless medically necessary), ringing during class will count against you.
- Handling of ANY such electronic devices during an exam will be construed as cheating (receiving unauthorized aid) and may result in a zero for that exam.
- Do not wear HATS or CAPS during exams.
- Do not share any materials during an exam. This includes, but is not limited to pencils, erasers, etc.
- Have only the exam, pencil, and eraser out during an exam. Plenty of work-space is provided on the actual exam. You will not be permitted to have any scratch paper during an exam.

### **ACADEMIC DISHONESTY:**

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Cooperation is encouraged in doing the homework assignments but not allowed on the Tests. If you are caught cheating, you will be subject to any penalty the instructor deems appropriate, **up to and including an automatic F for the course.** Furthermore, a letter will be sent to the appropriate dean. Refer to the following university site for the official policy with regards to academic dishonesty. The website is: <http://vpaa.unt.edu/academic-integrity.htm>

### **STATEMENT REGARDING USE OF EMAIL & ATTENDANCE:**

- Email may not be used in lieu of attendance. It is primarily for emergencies. YOU MUST ATTEND class to obtain course-related information. Content related questions will be addressed during office hours and scheduled appointments.
- I will only reply to email sent from UNT email accounts. You must include your full name, course name, number and section number in the subject header of your email.
- YOU are responsible for attending the required class meetings as stated in the course schedule guide.

### **Student Evaluation of Teaching Effectiveness (SETE):**

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. You must participate in this online short survey at the end of the semester. I consider the SETE to be an important part of your participation in this class.

For the spring 2013 semester, the SETE will be open between **April 15** and **May 4**.

## Course Topics (MATH 1710-Cal1)

The following chapters and sections of the textbook will be covered according to the projected schedule below. Dates may change as events warrant.

### • Chapter 2: Limits

- 2.1: The Idea of Limits
- 2.2: Definitions of Limits
- 2.3: Techniques for Computing Limits
- 2.4: Infinite Limits
- 2.5: Limits at infinity
- 2.6: Continuity
- 2.7: Precise Definition of Limits (*optional*)

### • Chapter 3: Derivatives

- 3.1: Introducing the Derivative
- 3.2: Rules of Differentiation
- 3.3: The product and Quotient Rules
- 3.4: Derivatives of Trigonometric Functions
- 3.5: Derivatives as Ratios of Change
- 3.6: The Chain Rule
- 3.7: Implicit Differentiation
- 3.8: Related Rates

### • Chapter 4: Applications of the Derivative

- 4.1: Maxima and minima
- 4.2: What Derivatives Tell Us
- 4.3: Graphing Functions
- 4.4: Optimization Problems
- 4.5: Linear Approximations and Differentials
- 4.6: Mean Value Theorem
- 4.7: L'Hopital's Rule
- 4.8: Antiderivatives

### • Chapter 5: Integration

- 5.1: Approximating Areas under Curves
- 5.2: Definite Integrals
- 5.3: Fundamental Theorem of Calculus
- 5.4: Working with Integrals
- 5.5: Substitution Rule

### • Chapter 6: Application of Integration

- 6.1: Velocity and Net Change
- 6.2: Regions Between Curves
- 6.3: Volume by Slicing
- 6.4: Volume by Shells
- 6.5: Length of Curves
- 6.6: Physical Applications

### **RECOMMENDED KEYS TO SUCCESS/EXPECTATIONS:**

Students who are successful in math spend a great deal of time and honest effort outside of class along with punctual attendance. Students who are successful come to each class on time and stay the entire class. You are responsible for everything that happens in class. You should come to each lecture and come prepared. Students who are successful spend an hour (or two) after each lecture with a classmate reviewing the lesson and working on homework problems. They meet with a study group several times per week, attend SI sessions and use the Math Lab. **Successful students work on the assignments consistently every day, instead of waiting until the last minute.** They read their textbooks regularly and make learning notes. Math is not a spectator sport. You will not learn mathematics from watching the instructor or friends display ideas and solve problems. You must try the problems, finish problems, ask questions, correct your mistakes, and put concepts in your own words, and **practice, practice, practice!!** An increase in effort usually results in increases in success.

- **Keep a positive attitude about your ability to succeed and work diligently towards that goal!**

- **MATHEMATICS IS NOT A SPECTATOR SPORT -- YOU MUST PRACTICE TO LEARN!!**

- **Wishing You a Great Semester Ahead!!!**