

Syllabus Of MATH1710.007 (Calculus I), Fall 2012:

INSTRUCTOR: Koshal Dahal Personal Site: www.math.unt.edu/~koshal	COURSE: MATH 1710.007, Calculus I Text Book (Recommended): Calculus by Briggs and Cochran, first edition.
Office: GAB 441 (Opposite to MathLab) Office Hours: M/W 2:00 – 3:00pm Thu: 11:00 – 1:00pm and by appointments. Email: KoshalDahal@my.unt.edu For emergencies, not in lieu of attendance. Allow one (1) business day for reply. <u>Include course name, number and your full name</u> 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	MyMathLab (Required) --Textbook is included online in MyMathLab. The MML course ID for this course is: dahal37545 This class will NOT use blackboard.
CLASS MEETS: M/W, 12:00-1:50PM, @ LANG 310 FINAL EXAM DATE AND TIME: Monday, December 10 , @10:30am-12:30pm	MATH LAB: GAB 440 (Opposite to my office) Web site: www.math.unt.edu/mathlab Go to Website for hours of operation.
WEB ACCESS MyMathLab (REQUIRED): Students must register in MyMathLab (MML) by the 2 nd class of the semester and must purchase 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 (not having access to MML is not an exception).	
COURSE DESCRIPTION AND PREREQUISITE: (4 hours) 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. Prerequisite: MATH 1650; or both MATH 1600 and MATH 1610	
ATTENDANCE AND GRADING POLICY: Average of MyMathLab HW, handed-in HW, & HW-Recap: 20% (MML HW: 7%, Handed-in HW: 5% , HW-Recap: 8%) Three Tests : 60% (20% each) Final Exam : 20%	
Attendance is mandatory. No late homeworks accepted!. No make-up HWs or Tests will be given.	
Four or more absences constitute nonattendance. 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 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. **Expect no extra credit or bonus assignments**. Please take special note that "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.

Students are responsible for all information given in class, regardless of his/her attendance. **Starting Oct. 10**, students may be administratively dropped from the course for nonattendance with a grade of WF.

HomeWork/ HW-Recaps:

A majority of the homework is online in MML. 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, each week you will hand-in in class some additional problems. **They will be assigned at my personal web site at www.math.unt.edu/~koshal, after each class has been taught and be strictly due before the next class starts, in class.** I will drop two lowest HW-Recaps, two lowest MML homeworks, and two lowest handed-in homeworks before computing each average.

Quizzes (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.

Final Test:

There will be three tests and a comprehensive Final exam, and the Final 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 can count as 20%** of the course grade. Again, NO MAKE-UP EXAMS WILL BE GIVEN FOR ANY REASON EVER!

Your final exam will be administered in our regular classroom on Monday, December 10, @10:30am-12:30pm.

You may not use calculators on any tests and final. **Final grades online access:** 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:

It is the responsibility of students with certified disabilities to provide the instructor with appropriate documentation from the Office of Disability Accommodations (ODA).

NOTES:

This syllabus is subject to change as the instructor deems necessary. Any/all changes will be announced during regular class time. 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, also visit <http://essc.unt.edu/registrar/schedule/fall/calendar.html>

Electronic access for homework assistance is available at: www.math.unt.edu/mathlab/emathlab

Sections to be Covered:

Chapter 2: sections 2.1-2.6;
Chapter 3: sections 3.1-3.8;
Chapter 4: sections 4.1-4.4, 4.6-4.8;
Chapter 5: Sections 5.1-5.5;
Chapter 6: sections 6.1-6.6.

Test Schedule and Grading Policies:

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

Exams: Three (3) in-class exams and a comprehensive final are planned for this semester. Count your points on exams 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** will be recorded for that exam and a notice may be sent through the registrar's office. Again, **NO MAKE-UP EXAMS WILL BE GIVEN FOR ANY REASON EVER**.

Content and dates are tentatively scheduled as follows:

Test 1: (Chapter 2, Sections 3.1-3.5) – (Week of Monday Oct. 1)
Test 2: (Sections 3.6-3.8, Chapter 4) – (Week of Monday Oct. 29)
Test 3: (Chapters 5 and Chapter 6) – (Week of Monday Dec. 3)

Comprehensive Final Exam date and time: Your final exam will be administered in our regular classroom on Monday, December 10, @10:30am-12:30pm.

GRADE ASSIGNMENT:

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

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. **Turn off all non-medical electronic devices such as iPhones, cell phones, laptops, kindles etc. Take-off the headphones. Do not read newspaper or work on 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), this includes cell phones, pagers, etc.
- 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>.

- The grade of "I" is designed for students unable to complete work in the course but currently passing the course. The guidelines are clearly spelled out in the Student Handbook. Before asking, you should read these requirements.

Progress Reports:

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

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, put concepts in your own words, and practice, practice, practice!! An increase in effort usually results in increases in success.

MyMathLab Quizzes Tips:

- Find a relatively quiet, distraction-free place with internet connection. Commit to NOT surfing the internet

while working on math (or any assignment for that matter).

- Keep a notebook for online assignments, both homework and quizzes. Write problems just as you would if the homework is submitted on paper.
- You are given three complete attempts per quiz. No help sources available during a quiz. Use the attempts carefully so that you can earn 100% for each MSL quiz.
- Read the online textbook chapter that corresponds to the quiz first, prior to attempting the quiz.
- Write each quiz question and your answer. If you don't know the correct answer, write all answer choices given.
- Submit and review your quiz results. If you missed any questions; read your online textbook again for the correct answer and write the correct answer(s) in your note copy.
- Retake the quiz.
- The Reading Assessment quizzes measure your reading comprehension and analysis skills, not computation. If you're having difficulty with the quizzes, seek help from the Learning Center immediately!!
- Start preparing and reviewing for the final exam the first week of classes. Revisit previous homework assignments, review completed in-class exams.
- **Keep a positive attitude about your ability to succeed and work diligently towards that goal.**

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 fall 2012 semester, the SETE will be open between **November 19** and **December 8**.

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

Wishing you a Great Semester ahead!!

Course Topics (MATH 1710)

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

- 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

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