

University of North Texas at Dallas
Spring 2015
SYLLABUS

MATH 5611D - 090 Introduction to Mathematical Analysis I, 3hrs			
Department of	Mathematics and Information Sciences	Division of	Mathematics
Instructor Name:	Mehmet Celik		
Office Location:	DAL2, Room #225		
Office Phone:	972-338 1568		
Email Address:	Mehmet.Celik@unt.edu		
Office Hours:	Office Hours <i>Mon. 11:00am-12:30pm; 03:00pm-05:00pm;</i> <i>Tues. 01:00pm-02:00pm;</i> <i>Wed. 11:00am-12:30pm; 03:00pm-05:00pm;</i> <i>Thur. 01:00pm-02:00pm;</i>		
Classroom Location:	DAL2 Room #213		
Class Meeting Days & Times:	Monday & Wednesday 5:30PM-6:50PM		
Course Catalog Description:	This is the first part of a two semester course in Introduction to Mathematical Analysis. Topics include: real number system; sequences and series; limit and differentiation, the Riemann integral, sequences of functions, elementary metric space theory including compactness, connectedness and completeness.		
Prerequisites:	Admission to M.Ed. program or consent of instructor		
Co-requisites:	N/A		
Required Text:	<ul style="list-style-type: none"> • the title and edition of the book: <i>Basic Analysis: Introduction to Real Analysis</i> • the author(s): <i>Jiří Lebl</i> • Download the book for free: http://www.jirka.org/ra/ • To buy paperback go to http://www.lulu.com/shop/jiri-lebl/basic-analysis-introduction-to-real-analysis/paperback/product-21957096.html 		
Access to Learning Resources:	UNT Dallas Library: phone: (972) 780-3625; web: http://www.unt.edu/unt-dallas/library.htm		
Expected Learning Outcomes (Course): At the end of this course, the student will be able to			
1	set up, solve and prove problems regarding the foundation of calculus;		
2	communicate with logical and technical precision in writing mathematical ideas;		
3	state and prove important results in mathematical analysis.		

Course Outline: This is the first part of a two semester class on introduction to real analysis. Topics to include: The real number system; sequences and series; limit and differentiation; the Riemann Integral; sequences of functions; elementary metric space theory including compactness, connectedness and completeness.

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by email and in-class announcements.

	Monday	Wednesday
Week #1 Jan. 19 & Jan. 21	<i>MLK Day</i> <i>(Classes do not meet)</i>	Lecture
Week #2 Jan.26 & Jan.28	Lecture	Lecture
Week 3 Feb.2 & Feb.4	Lecture	Lecture
Week 4 Feb.9 & Feb.11	Lecture	Lecture
Week 5 Feb.16 & Feb.18	Lecture	Lecture
Week 6 Feb.23 & Feb.25	Lecture	Lecture
Week 7 Mar.2 & Mar.4	Lecture	Lecture
Week 8 Mar.9 & Mar.11	Lecture	Exam #1
Mar.16 & Mar.18	<i>Spring Break</i>	
Week 9 Mar.23 & Mar.25	Lecture	Lecture
Week 10 Mar.30 & Apr.1	Lecture	Lecture
Week 11 Apr.6 & Apr.8	Lecture	Lecture
Week 12 Apr.13 & Apr.15	Lecture	Lecture
Week 13 Apr.20 & Apr.22	Lecture	Lecture
Week 14 Apr.27 & Apr.29	Lecture	Exam #2
Week 15 May 4 & May 6	Lecture	Lecture

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Exams – *Two Mid-term Exams and a comprehensive Final Exam.* There will be two Mid-term exams. You will have a full class period (80 minutes) to complete each. The date for each exam is

Exam #1: March 11th Monday (Week #9)

Exam #2: April 29th Wednesday (Week #14)

See Make-up Policy section for more information on the Exams. The Final Exam date is

Final Exam Date and Time:	Monday, May 11, 2015 from 5:00 PM to 7:00 PM
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Homework Assignments: There will be eight homework assignments. The questions for the assignments and each assignment's due date will be announced in class or online through email and course home page. Late homework won't be accepted.

In-class Quizzes – In-class Quizzes will be hold at the first 5-10 minutes of every class. For the in-class quizzes we are going to use a format described at the attached file to the appendix of the syllabus. **There will be no make-ups for any missed in-class quizzes. Instead, at the end of the semester ten of the highest in-class quizzes will be considered.**

Grading Matrix: The following grading matrix for Math 5611D -090 course of Spring 2015 presents how your total score is going to be calculated at the end of the semester for Math 5611D -090. All the grading instruments are assigned between the first day of class (01/20/2015) of Spring 2015 semester and last day of class (07/05/2015) of Spring 2015 semester. The Final exam is the last grading instrument of the course; the date of the Final Exam is **Final Exam: Monday, May 11, 2015 from 5:00 PM to 7:00 PM.** The student’s grade is determined solely by his/her performance on the evaluation criteria and the grade assignments listed above. *Do not expect Extra Credit assignments!*

Instrument	Value (points or percentages)	Total
In-class Quizzes	10 in-class quizzes, 9 points each (best 10 to be considered)	90
Homework Assignments	8 homework assignments at 5 points each	40
Mid-Term Exams	Two midterm exams at 85 points each	170
Final Exam	One comprehensive final exam at 100 points	100
Total:		400

Grade Determination:

- A = 400 – 360 pts; i.e. 90% or better
- B = 320 – 359 pts; i.e. 80 – 89 %
- C = 280 – 319 pts; i.e. 70 – 79 %
- D = 240 – 279 pts; i.e. 60 – 69 %
- F = 239 pts or below; i.e. less than 60%

Email Policy: Use your Blackboard email account to contact me. You should check your email account on the Blackboard every day. You are responsible for any information that I send out via email. Due to privacy rights, I will not discuss grades over the phone. I will only answer emails from your **Blackboard** account.

Calculator Policy: No any calculators are required for this course.

University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students’ with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as

accommodations are not retroactive. For more information, you may visit the Student Life Office, Suite 200, Building 2 or call at 972-780-3632.

Student Evaluation of Teaching Effectiveness Policy:

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

Assignment Policy:

Late homework won't be accepted. Instead, at the end of the semester two of the lowest homework scores will be dropped.

Exam Policy:

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). Specifically, in the case of injury or illness, you need to provide a note from a health care professional affirming date and time of a medical office visit regarding the injury or illness and stating that you should not be in class that day. You must notify me no later than the end of the second working day after the missed exam.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at [http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs.%20Education.%20and%20Funding/7.002%20Code%20of%20Academic Integrity.pdf](http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs.%20Education.%20and%20Funding/7.002%20Code%20of%20Academic%20Integrity.pdf) for complete provisions of this code. In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement: **On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.**

Bad Weather Policy:

On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.unt.edu/dallas. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:

The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

- Attendance at lectures may be recorded at any time.
- Unless you have cleared it with me before the lecture or have a very compelling excuse, do not expect to be recorded as attending if you come to class late or leave early.

For security measures once a student signs an attendance sheet she/he cannot leave the class without professor's permission.

- If a student needs to leave the class earlier she/he should talk to the professor before the class; the student should leave the classroom quietly.

- *If a student has to leave the class (for example in case of a family emergency or a similar situation) the student must invite the professor politely out of the classroom to explain the situation.*

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Center for Student Rights and Responsibilities as the instructor deems appropriate.

Copyright Policy:

The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this course, which include but are not limited to syllabi, lecture notes, quizzes, exams, in-class materials, review sheets, projects, and problems sets. Because these materials are copyrighted, you do not have the right to copy and distribute the handouts, unless I expressly grant permission.

Other Policy:

*Use of Cell Phones & other Electronic Gadgets (such as Laptops) in the Classroom are prohibited. **Food** is prohibited, drink is allowed in the Classroom.*