MATH 377 - Introduction to Real Analysis

Department of Mathematical Sciences  Spring 2021

READ THIS SYLLABUS CAREFULLY. YOU ARE RESPONSIBLE FOR KNOWING THIS INFORMATION!

Prerequisite: MATH 218 (C- or higher) and MATH 221 (C- or higher)

Course Description: This is an introductory course in real analysis where we reexamine the fundamentals of calculus in a more rigorous way than is customary in the beginning calculus courses and develop those theorems that will be needed to continue in more advanced courses. At the same time, we try to illustrate how proofs are constructed so that by the end of semester the students should be able to read and write correct proofs for simple mathematical statements.


Instructor: Dr. Eran Makover (you can call me Eran)

Phones: Office: (860) 832-2941

Email: makovere@ccsu.edu best way to reach me

Office Hours: MWF 11:00-12:10 and Monday 3:00-4:20, or by appointment

Class Meeting Times: MW 4:30-6:10

Ebenezer D. Bassett 311

Our Online Teams Link

Information how to use Teams:

Joining a Teams Meeting

Functions in a Teams Meeting

Using the Chat in Teams

Coverage:

Grading: HW, quizzes, participation  30%
          Tests                          40%
          Final Exam                    30%

Course Requirements: Although this semester we are online you are expected to attend and participate in class regularly, make sure that your web cam is on and you are muted unless you have a questions or remark. Do not hesitate to ask and
participate during the class, if you have a question it will benefit the rest of the class so ask.
It is important that you complete assignments and take tests as scheduled.

The exams will be online you will need to take them during class time you will need to have working
webcam or cell phone with camera so I can proctor the exam.

Homework cannot be made up. No Make-Up Exam will be given unless there exists an extenuating
circumstance and prior consent is given. In the case of an extenuating circumstance, the missed test must be
made up prior to the next class meeting.

A general rule for any college course is that you are expected to put in at least 2 hours of work outside of
class for every hour in class.

You will need a calculator for this course.

**Homework:** Doing homework is the most important part of your course work. After each class you will
find the homework at the Calendar tab at the course website. You are expected to do all homework assign
before the next class, although homework will not be collected you need to write down you work. This is the
best practice for you to be able to present your work in logical and organized way. Occasionally I will
announce and collect set of homework this will be your homework grade.

Homework will be submitted typed using LaTeX see how to use Latex tab for more details.

**Attendance and Class Participation Policy:**

a. You are expected to attend every class. If you can’t attend class, you need to contact one
   of your classmates to find out what you have missed and get the notes.

b. In the case of an unavoidable absence, please notify me in advance of the date, or, if that is impossible,
   phone or e-mail me at the time of the absence.

c. You are expected to participate in every class. Class participation consists of asking questions,
   responding to questions in class or participating in group activities.

**University Policies:**

1. Please contact me privately to discuss your specific needs if you believe you need course
   accommodations based on the impact of a disability, medical condition, or if you have emergency
   medical information to share. I will need a copy of the accommodation letter from Student
   Disability Services in order to arrange your class accommodations. Contact Stephanie Scapecia in
   Student Disability Services at: (860) 832-1952, Willard, Rooms 201, if you are not already registered
   with them. Student Disability Services maintains the confidential documentation of your disability
   and assists you in coordinating reasonable accommodations with faculty.

2. The last day to withdraw from a course is April 19, Approvals for withdrawal are not required;
   however, it is strongly recommended that students consult with their academic advisors prior to
deciding to withdraw. Cessations of attendance, notice to the instructor, or telephone calls to the
Enrollment Center are not considered official notice of a student’s intention to drop the course.

After April 19 withdrawals are allowed only under extenuating circumstances and require approval of the
course instructor, department chair.

Poor academic performance is not considered an extenuating circumstance.

Central Connecticut State University strives to maintain our campus as a place of work and study for faculty,
staff, and students that is free of all forms of prohibited discrimination and harassment based upon age;
ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns about should contact the Office of Diversity and Equity (ODE) at 860-832-1652, Student Affairs at 860-832-1601, or his/her faculty member. The ODE is located on the main floor of Davidson Hall, room 102.

Central Connecticut State University is committed to providing a learning and working environment that emphasizes the dignity and worth of every member of its community. Sexual harassment (including sexual assault) in any form will not be tolerated. Sexual harassment" means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. For additional information, please consult the CCSU policies at http://www.ccsu.edu/diversity/policies/index.html. All faculty members and staff have a duty to report incidents of sexual harassment including sexual violence to Rosa Rodríguez, Title IX Officer, Office of Diversity and Equity, Davidson Hall, 102.

To file a report contact: Diversity and Equity (860-832-1652); Student Affairs (860-832-1601); Student Conduct (860-832-1667) or the University Police (860-832-2375).

For support and advocacy contact: Office of Victim Advocacy & Violence Prevention (Carroll Hall 248) at 860-832-3795 to speak with Sarah Dodd {sarahdodd@ccsu.edu}; Student Wellness Services at 860-832-1945 (confidential), the Women’s Center at 860-832-1655, the local YWCA’s Sexual Assault Crisis Services Hotline at 860-223-1787 (confidential) and Prudence Crandall Center for Domestic Violence (confidential) at 888-774-2900 (24-hour hotline).

Academic Integrity: All students are expected to demonstrate integrity in the completion of their coursework. Academic integrity means doing one's own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.

For further information on academic misconduct and its consequences, please consult the Student Code of Conduct (http://www.ccsu.edu/StudentConduct/codeofconduct.asp) and the Academic Misconduct Policy (http://www.ccsu.edu/AcademicIntegrity/).

The single most valuable piece of advice in this whole syllabus (really):  

It is virtually impossible to pass this course without doing the homework! (No kidding!) This is not a threat, but simply a reality of math courses. Just watching me work problems in class is not sufficient. It would be like taking a course in swimming without ever getting in the water. The only way you learn this stuff is with lots of practice (the same was true for me, too). That means you need to do all the homework religiously.

A Useful Diagnostic: If you work the problems using the solutions in the back of the book or a tutor, be
careful not to fool yourself. Until you can do a problem without constant help from the tutor or without constantly looking at the solution, then you do not really understand how to do the problem. Remember that the solution or the tutor will not be there to help you on an exam. That doesn’t mean don’t use them – it simply means don’t use them as a crutch.