

Repetitio est mater studiorum
(*Repetition Is the Mother of Study*)
Latin wisdom

Interest comes with success,
and success comes with hard work.
Professor Yaroslav Tagamlizki

Eastern Connecticut State University
MAT 421-01, Real Analysis II, Spring 2014

Instructor: Christian Yankov

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Time and Place: MF 10:00-10:50 am, W 10:00-11:50 am, Science 132.

Text: *Analysis with an Introduction to Proof*, Fifth edition, Steven R. Lay.

Office hours: MF 11:00-12:00 am, and 2:00-3:00 pm, W 2:00-3:00 pm.

Prerequisites: MAT 420.

Course topics: Limits, continuity and uniform continuity of functions; differentiation and integration of functions; infinite number series; sequences and series of functions, uniform convergence.

Class format: Each class meeting will consist of a lecture and include related problem solving.

Attendance: It is expected that you be there on time for each and every class. If for some reason you should miss a class, then it is your responsibility to find out from a friend what has been covered and assigned and make it up.

Homework: Homework should be written neatly on standard letter format paper on one side of the sheet only. By now I believe you understand the importance of doing the homework as a critical factor in building and reinforcing your knowledge, as well as helping you identify your weak points and also as a valuable source of in-class discussion.

Binder: As in the fall semester, you must collect all your homework assignments in a binder. Put a separator to mark the end of the fall assignments and start adding the spring ones. At the end of the semester you should have a complete set of these for both semesters. This is a requirement to pass.

Quizzes: Quite often at the beginning of class time there will be a short quiz. This should keep you alert and following the material regularly, carefully, and closely.

Exams: There will be a midterm exam the date of which will be announced at least a week in advance.

Make-ups: There will be no make-ups for quizzes, since I will drop the lowest one. Make-ups for the midterm exam are strongly discouraged and might be allowed for truly exceptional reasons only, and with my prior permission.

LAC Tier III Papers: This class is designated as a Tier III, Independent Inquiry, course. At the beginning of the semester the class will be divided in groups of 3-4 people. Each group has to write 2 common papers 4 to 5 pages long, titled: *An Important Concept Introduced in Real Analysis I*, and *An Important Concept Introduced in Real Analysis II*, each with a subtitle reflecting the corresponding concept. These papers will primarily be an exposition of the chosen topics, supported by examples, and/or applications. You will be given 2 weeks to choose the topic of the first paper, which should be from Real Analysis I, and give a preliminary short presentation of the plans in class for approval. At the end of Week 4 you will have to be ready for a discussion on the progress of the paper. The submission of the first paper and presentations will take place in Week 7. At the end of Week 9 you will have to be ready to make a short preliminary presentation on the plans for the second paper for approval. At the end of

Week 12 you will have to be ready for a discussion on the progress of the second paper. This paper should also be accompanied by 2-3 page individual appendix essays by each member of the group, addressing the individual experiences in preparing and writing the two papers in the context of Mathematics as one of the original Liberal Arts, and/or the setting of Liberal Arts as a whole. The submission and presentations of the second paper will be in Week 14.

Final Exam: A cumulative final exam will take place on Wed., May 7, 2014, 11:00-1:00 pm.

Evaluation: Your work in this course will be weighted as follows. The quizzes will account for 10% of your grade, the common Tier III papers will account for 5% of your grade each, the individual reflection essay for 5%, the oral presentations together for 5%, the homework will account for 20%, the midterm exam will account for 25% and the final exam will account for the remaining 25%.

Grades: The ranges for the grades are the following:

A-, A	90% and above	B-, B, B+	80% - 89%
C-, C, C+	70% - 79%	D, D+	60% - 69%

How to get help: You are encouraged to come see me during office hours, if you have difficulties with the subject matter.

Inclement weather: For cancellation of classes due to bad weather follow the messages on the university weather hot line at (860) 465-4444, or 1-800-578-1449, or visit the website universityrelations.easternct.edu/cancellations.htm

Eastern uses also the local radio and TV station broadcasts to announce cancellations. If you are subscribed to Eastern Alert, you should also be notified via that channel.

Weather Closing Policy: In the event of a delayed opening of the University, any class that would have at least 45 minutes of meeting time remaining after the announced opening time will meet starting at the announced opening time. Any class meeting that would have fewer than 45 minutes of meeting time after the announced opening time will not meet. For example, if opening the campus is delayed until 10 a.m., classes running from 9:30-10:45 a.m. would meet from 10-10:45 a.m.

In the event of an early closing of the University, any class that would have at least 45 minutes of meeting time prior to the announced closing time will meet until the announced closing time. Any class meeting that would have fewer than 45 minutes of meeting time before the announced closing time will not meet. For example, if we were to close the University early at 3 p.m., classes running from 2-3:15 p.m. would meet from 2-3 p.m.

Students with disabilities: Eastern Connecticut State University is committed to following the requirements of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. If you are a student with a disability (or think you may have a disability), and require adaptations or accommodations, or assistance evacuating a building in the case of an emergency, please contact the Office of AccessAbility Services (OAS) at 860-465-0189 to discuss your request further. Any student registered with the OAS should contact the instructor as soon as possible for assistance with classroom accommodations. Please note that accommodations are not retroactive, and must be communicated through a Letter of Accommodation which is drafted by the OAS.

Academic Misconduct: Students should read and understand Eastern's Academic Misconduct Policy, which can be found in the student handbook or at the following website:

kb.easternct.edu/article.aspx?article=1522&p=11

All violations will be handled under the procedures established in this policy.

Disclaimer: *The instructor reserves the right to make changes to this syllabus during the semester as necessary.*