

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

Interest comes as a result of success,
and success comes as a result of hard work.
Professor Yaroslav Tagamlizki

Eastern Connecticut State University
MAT 380-01, Geometry, Fall 2018

Instructor: Christian Yankov

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Time and Place: **MW** 1:00-1:50 pm, Communications 201, **F** 1:00-1:50 am, Science 238.

Text: *Kiselev's Geometry, Book I. Planimetry*, adapted by Alexander Givental.

Technology: Straightedge, compass. We will use Geometer's Sketchpad and/or GeoGebra software in the labs.

Office hours: **M** 2:00-3:00 pm, **W** 10:00-11:00 am, and 2:00-4:00 pm, **F** 10:00-11:00 am.

Prerequisites: MAT 230.

Course topics: Axioms of Euclidean geometry, basic figures in two- and three- dimensions and their classification, congruence criteria for triangles, relationships between sides and angles in a triangle, parallel lines, the parallel postulate and its implications, basic properties of non-Euclidean geometry in two dimensions (hyperbolic and spherical), basic constructions in the plane, similarity, right triangles and trigonometry, the Pythagorean theorem and other algebraic relationships in triangles, plane transformations and symmetry, area and volume of two and three dimensional figures.

Goals and Objectives: By the end of the class you should:

- Understand the essence of the axiomatic approach to building a mathematical discipline on the example of geometry;
- Get both theoretical knowledge and practical experience with important basic concepts of Euclidean and non-Euclidean geometry (the topics listed above);
- Achieve further mastery of constructing rigorous mathematical proofs through extensive problem solving;
- Get certain level or proficiency with at least one package of Geometry software as a technology tool for visualization and exploration in the plane.

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: After each class you will get a homework assignment. It will not be collected and graded, but must be completed and should prepare you for the quizzes. I cannot stress enough the importance of doing the homework. It is a critical factor in building and reinforcing your knowledge, as well as helping you identify your weak points.

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 two longer exams throughout the semester. Their dates will be announced at least a week in advance.

Final Exam: There will be a cumulative final on **Wed., Dec. 12, 2018, 2:00-4:00 pm.**

Evaluation: The quizzes and lab assignments will account for 15% of your grade, the two longer exams will account for 25% each and the final exam will account for the remaining 35%.

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 should come see me during my office hours, if you have difficulties with the subject matter. You can get free tutoring at the Mathematics Achievement Center (MAC), located on the first floor of the E. J. Smith Library, Room 107. Please visit www.easternct.edu/mathematics/department-index/mathematics-achievement-center/, or call 465-0383 for the schedules of the MAC. If you feel you need help, do not wait until an exam is imminent.

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

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 <http://www.easternct.edu/easternalert/>

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, as well.

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:

www.easternct.edu/academicmisconduct/

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.*