

Department of Mathematics

**MA 472-2B Syllabus: Geometry I Fall 2025**

**Instructor**: Nikita Selinger

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Office: UH 4016

Student Hours Thusday and Thursday 11-12 or by appointment.

205-934-2154

## **Preferred Methods of Contact**: Email is the preferred method of contact if you have questions. Please expect a response within 24 hours on weekdays and a slower response on weekends. I will expect the same of you. Include MA 472-2B in the subject line of your email for a faster response. I am available to meet with you virtually via Zoom if needed.

## **Instructional Method**:

**In-Person:** This class will be conducted with in-person class meetings and the Canvas Learning Management system. Check the course Canvas page often for announcements and assignments.

## **Time Commitment**: This class meets twice per week for 1.25 hours each. In addition to our class meeting time, you should spend about 6 hours per week reading, studying, preparing for class discussions, and completing assignments.

# Course Information:

## **Course Number and Title**: MA 472-2B – Geometry I (Euclidean)

**Class Meeting Times:** Tuesday/Thursday 9:30 –10:45 AM

## **Course Description**:

The meetings will be a mixture of lectures and problem solving done by students.

## **Course Objectives**: We will cover the following topics:

1. Congruence and geometric constructions.
2. Introduction to axioms, theorems, and proofs.
3. Area measure and theorems.
4. Angle measure and theorems.
5. Similarity, trigonometry, and circle measure, as time permits.

**Learning Outcomes:**  Students will:

1. Articulate understanding of congruence, transformations, and isometries.
2. Undertake geometric constructions using ruler and compass.
3. Articulate understanding of basic axioms, theorems, and proofs about congruence of triangles and other plane figures.
4. Articulate understanding of parallel lines and of the measure of area.
5. Articulate understanding of the Pythagorean theorem and the measure of angles.

## **Required Text and Course Materials**:

There textbook for this course is: Kiselev, *Geometry, Book I. Planimetry*. During every class you should have available the following items.

1. Your textbook.
2. A 3-ring binder containing your class Notebook, everything up to date.
3. Straightedge (ruler) and compass.
4. Sharp pencils or pens, colors are useful.

You will need a scanning app on your smart phone or computer to submit PDF copies of work done for assignment. Adobe Scan is free: <https://acrobat.adobe.com/us/en/mobile/scanner-app.html>

**Course Grades:** Students earn their grade in the course as determined in the tables below. How each grade component is determined is described in the paragraphs that follow. Points accumulated will be recorded in CANVAS within one week of the completion of the assignment or activity. Important due dates will be listed in CANVAS calendar. Recall that a grade of **D** cannot count toward the mathematics major.

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| --- | --- | --- | --- | --- |
| **Grade Element** | **Points** |  | **Points Earned** | **Course Grade** |
| In-Class Quizzes | 20% |  | 88-100% | A |
| Homeworks | 20% |  | 75-88% | B |
| Midterm | 25% |  | 62-75% | C |
| Final Exam | 35% |  | 50-62% | D |
| **Total** | **100%** |  | Below 50% | F |

## **Late Assignment Policy**: Assignments no more than one class meeting late will be subject to a 10% grade penalty. Assignments more than one class meeting late are subject to greater penalty at the discretion of the instructors.

# Tests and Quizzes:

1. **In-Class Quizzes**: quizzes will be given in class without prior announcement and based primarily upon work done within the current and one or two prior class meetings. Quizzes will be of a similar nature to the types of problems, examples, constructions, and theorems encountered in class and in working through the textbook. Each quiz counts 10 points unless specified otherwise at the time. No quizzes take a full class period, usually just 20 minutes or so.
2. **Midterm and Final Exams**: The examinations will consist of several problems like the major problems and theorems of the course, but not repeating problems in the course.

## **Add/Drop and Course Withdrawal**:

* Drop/Add: Deadlines for adding, dropping, or withdrawing from a course and for paying tuition are published in the [Academic Calendar](https://www.uab.edu/students/academics/academic-calendar/2021-2022) available online. Review the [Institutional Refund Policy](https://www.uab.edu/students/one-stop/policies/institutional-refund-policy) for information on refunds for dropped courses.
* Withdrawal: To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and receive a grade of W (withdrawn). Failure to attend class does not constitute a formal drop or withdrawal.

**Make-Up Policy**: There are no make-up quizzes or presentations for absences resulting in decreased participation or quiz credit. If you miss a class for a verifiable emergency**,** illness, necessary medical appointment,COVID isolation, or on UAB official business, the instructor will work with you to find areasonable accommodation.

**UAB Policies and Resources**

**Student Conduct Code**

The purpose of the University of Alabama at Birmingham (“University”) student conduct process is to support the vision, mission, and shared values of the University and the tenets of the University’s creed, The Blazer Way. Through a student-focused and learning-centered lens, the process strives to uphold individual and community standards; foster an environment of personal accountability for decisions; promote personal growth and development of life skills; and care for the well-being, health, safety, and property of all members of the University community.

The [Student Conduct Code](https://www.uab.edu/students/accountability/policies/student-conduct-code) (“Code”) describes the standards of behavior for all students and student organizations and outlines students’ rights and the process for adjudicating alleged violations. It is set forth in writing in order to give general notice of non-academic prohibited conduct. The Code should be read broadly and is not designed to define non-academic conduct in exhaustive terms. All students and student organizations are expected to conduct themselves in accordance with the Code. The current version of the Code, which may be revised periodically, is available from the Office of Community Standards & Student Accountability.

**Intellectual Property**

My lectures and course materials, including PowerPoint presentations, quizzes, exams, outlines, and similar materials, are protected by copyright. You may take notes and make copies of course materials for your own use. You may not and may not allow others to reproduce or distribute lecture notes and course materials publicly, whether or not a fee is charged, without my expressed written consent.

**DSS Accessibility Statement**

Accessible Learning: UAB is committed to providing an accessible learning experience for all students. If you are a student with a disability that qualifies under the Americans with Disabilities Act (ADA) and/or Section 504 of the Rehabilitation Act, and you require accommodations, please contact Disability Support Services for information on accommodations, registration, and procedures. Requests for reasonable accommodations involve an interactive process and consist of a collaborative effort among the student, DSS, faculty and staff. If you are registered with Disability Support Services, please contact me to discuss accommodations that may be necessary in this course. If you have a disability but have not contacted Disability Support Services, please call (205) 934-4205 or visit [the DSS website](http://www.uab.edu/dss).

**Title IX Statement**

In accordance with Title IX, the University of Alabama at Birmingham does not discriminate on the basis of gender in any of its programs or services. The University is committed to providing an environment free from discrimination based on gender and expects individuals who live, work, teach, and study within this community to contribute positively to the environment and to refrain from behaviors that threaten the freedom or respect that every member of our community deserves. For more information about Title IX, policy, reporting, protections, resources, and supports, please visit the [UAB Title IX webpage](http://www.uab.edu/titleix).

**Violence Prevention and Response Policy**

The University of Alabama at Birmingham (UAB) is committed to maintaining a safe and secure educational environment and workplace, one which seeks to ensure the well-being and safety of faculty and staff, employees, students and visitors. Violence and threatened violence are prohibited by UAB. Each member of the UAB community has the responsibility to understand, prevent, and respond appropriately to campus/workplace violence. For more information, view the [Violence Prevention and Response Policy](https://secure2.compliancebridge.com/uab/portal/getdoc.php?file=393).

**Technology**

Access technical support and view privacy policies and accessibility statements for Canvas and other technologies on the [Student Learning Technologies website](https://www.uab.edu/elearning/academic-technologies). Additionally, view information about the [Minimum System Requirements and Technical Skills](https://www.uab.edu/elearning/technology-resources).

**Canvas Alerts**

I may send alerts to students based on Canvas course information, such as current grades in the course, online attendance (login records), assignment due dates, and assignment scores. The alert is sent as an email to the student’s UAB email address.

**Health and Safety**

UAB is very concerned for your continued health and safety. Please consult the [Student Health Services webpage](https://www.uab.edu/students/health/) for up-to-date guidance because the following information is subject to change as circumstances require.

We strongly urge you to be fully vaccinated. Mask-wearing has proven to be one of the most successful mitigation strategies used to combat spread of the various variants of the COVID-19 virus. View information on the Immunization Requirements and Policies of the University on the [Student Health Services Immunizations webpage.](https://www.uab.edu/students/health/immunizations)

**Student Academic and Support Services**

* [One Stop Student Services](https://www.uab.edu/one-stop/) provides a single point of professional integrated service to students. The One Stop serves students who need assistance with academic records, financial aid, registration, student accounting, ONE card, and other related topics.
* [Student Assistance and Support](https://www.uab.edu/students/assistance/about) provides individualized assistance to promote student safety and well-being, collaboration and resilience, personal accountability, and self-advocacy. The Care Team consults and collaborates with campus partners to balance the needs of individual students with those of the overall campus community. [The UAB Care Team](https://www.uab.edu/careteam/) helps find solutions for students experiencing academic, social, and crisis situations including mental health concerns.
* [Disability Support Services](https://www.uab.edu/students/disability/about) assists students with reaching accommodations for their educational experiences at UAB that ensure that they have equal access to programs, services, and activities at UAB.
* The [Vulcan Materials Academic Success Center](https://www.uab.edu/students/academics/student-success) provides tutoring, supplemental instruction, and other services that encourage goal achievement and degree completion.
* The [University Writing Center](http://www.uab.edu/writingcenter) offers free writing assistance for all UAB students. Get help at any stage of the writing process and with any type of writing. Students may meet with a tutor in person or via Zoom. Students may also upload a paper for feedback (called eTutoring in the online system). During in-person and Zoom sessions, tutors can help you understand your assignment, develop and organize your ideas, use and cite sources, revise and edit your draft, and more. When you upload a draft for eTutoring, tutors can provide feedback on both big-picture issues and detail-oriented concerns; please note that you must upload a draft and assignment sheet to use eTutoring.

To make an appointment or get more information, please see the [UWC website](http://www.uab.edu/writingcenter), email writingcenter@uab.edu, or call 205-996-7178. Follow the UWC on [Facebook](https://www.facebook.com/UABWritingCenter), [Instagram](https://www.instagram.com/uab_writing_center/), and [LinkedIn](https://www.linkedin.com/company/uab-university-writing-center) for daily news and quick writing tips.
* [UAB Student Health Services](https://www.uab.edu/students/health/) delivers comprehensive, high quality, confidential, primary healthcare to students. Student Health provides testing services and vaccination clinics.
* [Student Counseling Services](https://www.uab.edu/students/counseling/our-services) offers students a safe place to discuss and resolve issues that interfere with personal and academic goals. UAB has created a new app (available in the App Store and Google Play) called [B Well](https://www.uab.edu/reporter/resources/be-healthy/item/9404-blazer-created-mental-health-app-puts-wellness-in-student-hands), that is designed to easily access resources on mobile devices and build a self-care plan. [Kognito](https://www.uab.edu/uabcares/kognito) is a free, interactive simulation-based platform designed to help you talk with someone when you are worried about your mental health.
* [UAB Blazer Kitchen at the Hill Student Center](https://www.uab.edu/students/assistance/blazer-kitchen) provides food and basic supplies for any UAB student in need through in-person or online shopping. Students who can are also able to donate food and supplies to assist their peers. To get more information, call 205-975-9509, email studentoutreach@uab.edu, or visit the [Student Assistance & Support website](https://www.uab.edu/students/outreach/about).
* The [Office of Learning Technologies](https://www.uab.edu/elearning/students) provides numerous academic technologies and learning resources for students.
* [UAB Emergency Management](https://www.uab.edu/emergency/) will be the official source of UAB information during any actual emergency or severe weather situation.

The following are the various websites describing additional student academic and technology resources:

* [UAB Policies for Students](https://www.uab.edu/elearning/policies)
* [Student Academic and Support Services](https://www.uab.edu/elearning/policies%22%20%EF%B7%9FHYPERLINK%20%22https%3A/www.uab.edu/elearning/student-services)
* [Technology Resources](https://www.uab.edu/elearning/technology-resources)

See also the [Student Assistance & Support](https://www.uab.edu/students/assistance/resources/covid-19) website of Student Affairs for a description of Covid-19-related resources, including the laptop loaner program.