

MATH 362: Topics in Geometry Fall 2015 Syllabus

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Meeting Time: Monday, Wednesday, Friday 2:00 - 2:50 (pm) in Swenson 3003

Office Hours: Monday, Wednesday, Friday 9:00 - 10:50 (am) in Swenson 3024

Text: *Euclidean and Transformational Geometry* (first edition) by Shlomo Libeskind. Jones and Bartlett.

Materials: You will need a drawing compass and a straightedge. You will use either *Geometer's Sketchpad* or *GeoGebra*. Geometer's Sketchpad is installed on the lab computers.

Course Description: Modern treatment of topics from Euclidean geometry with an introduction to other geometries. Appropriate for Elementary or Secondary school mathematics teachers.

Course Objectives: This course will refresh your knowledge of high school geometry and introduce you to more advanced topics in geometry. You will learn to carry out basic and more advanced geometric constructions and you hone your abilities at reading and writing mathematical proofs. In addition you will become familiar to geometric software packages.

Attendance: Attendance is expected everyday.

Calculator Policy: Calculators are *not* allowed on exams.

Notes: During lecture you will be expected to take notes. I will not be using slide presentations or posting my notes online. If you miss a day of class be sure to get notes from a fellow classmate.

Homework: Every Friday you will be assigned homework exercises. Each assignment will be due the following Friday. There will also be some assignments where you are required to use *Geometer's Sketchpad* or *GeoGebra*. You are encouraged to work in groups. However, everyone must turn in their own solutions.

Group Work: On the first day everyone will be assigned to a group. Occasionally each group will have to present a topic to the class.

Exams: There will be one midterm exam and one final exam. They will be closed book. You are allowed one note card no larger than $3'' \times 5''$ for any notes you can fit on it. Make up exams will only be given in exceptional circumstances and will require prior approval of the instructor. In emergency situations (medical, etc.), a note from a physician will be required. If absences at exams are not adequately documented, the student will receive 0 points. There will be NO make-up final exam.

Exam Dates:

- **Midterm Exam:** Friday November 6th, in class.
- **Final Exam:** Friday December 18th (3:00 - 5:00 pm).

Holidays: There will be two days during the semester where there is no class. The first is Labor day on September 7th. The second is during Thanksgiving break on November 27.

Grading: The overall course grade will be determined from homework assignments, group presentations, one midterm exam and a comprehensive final exam. Grades will be determined in the following way:

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|-----------------------------------|----------------------|
| • Homework: 40% | A: 90% - 100% |
| • Group Presentations: 10% | B: 80% - 89% |
| • Midterm Exam: 25% each. | C: 70% - 79% |
| • Final Exam: 25% | D: 60% - 69% |
| | F: 0% - 59% |

Plus and minus grades will be awarded to students within two percentage points of a grade.

Learn @UW-Superior: I will *not* be using Learn @UW-Superior. Your grade can be calculated using the breakdown given above.

Disabilities Accommodation: Students with documented medical disabilities, as covered under the 1990 ADA, will be reasonably accommodated once the student has provided the instructor a signed copy of the FAF (Faculty Accommodation Form) provided by Disabilities Support Services (DSS). Since accommodations are not retroactive, students must identify themselves and their reasonable accommodation needs (via FAF) to the instructor at the beginning of each semester accommodations will be needed, or within a reasonable period of time before the accommodations will be required. The DSS office is located in 1024 Swenson Hall. Questions related to DSS accommodation-related needs may be made by calling 394-8515 or e-mailing disability@uwsuper.edu

University Policies: The University of Wisconsin-Superior is dedicated to a safe, supportive and nondiscriminatory learning environment. It is the responsibility of all undergraduate and graduate students to familiarize themselves with University policies regarding special accommodations, academic misconduct, religious beliefs accommodation, discrimination and absence for University sponsored events. For details of the Student Disciplinary Procedures:

- Academic Misconduct Disciplinary Process (Chapter 14) can be found at http://docs.legis.wisconsin.gov/code/admin_code/uws/14.pdf
- Student Nonacademic Disciplinary Procedures (UWS Chapter 17) can be found at http://docs.legis.wisconsin.gov/code/admin_code/uws/17.pdf

Tentative Schedule for the Semester: The instructor reserves the right to make any reasonable changes to the schedule.

Date	Topics	Notes
September 2	Chapter 0	
September 4	Section 1.1	
September 7	Labor Day (No class)	
September 9	Section 1.2	
September 11	Section 1.2	
September 14	Section 1.3	
September 16	Section 1.3	Last day to drop without a W
September 18	Section 1.4	
September 21	Section 1.4	
September 23	Section 2.1	
September 25	Section 2.1	
September 28	Section 2.2	
September 30	Section 2.2	
October 2	Section 2.3	
October 5	Section 3.1	
October 7	Section 3.1	
October 9	Section 3.2	
October 12	Section 3.2	
October 14	Section 3.3	
October 16	Section 4.1	
October 19	Section 4.1	
October 21	Section 4.2	
October 23	Section 4.2	
October 26	Section 4.3	
October 28	Section 4.4	
October 30	Section 4.4	
November 2	Section 4.5	Daylight Savings (Nov. 1st)
November 4	Midterm Review	
November 6	Midterm Exam	
November 9	Section 5.1	Last day to drop
November 11	Section 5.1	
November 13	Section 5.2	
November 16	Section 5.2	
November 18	Section 5.3	
November 20	Section 5.3	
November 23	Section 5.4	
November 25	Section 6.1	
November 27	Fall Break (No class)	
November 30	Section 6.1	
December 2	Section 6.2	
December 4	Section 6.2	
December 7	Section 7.1	
December 9	Section 7.1	
December 11	Section 7.2	
December 14	Review for final	
December 18	FINAL EXAM	3:00 - 5:00 pm