

**MATH 312-001: Geometry**  
**Syllabus, Spring 2020**

**Course goals.** To develop basic concepts of Euclidean geometry in two and three dimensions, based on methods of analytic geometry.

**Prerequisite.** Grade C or better in MATH 114.

**Lecture notes** will be used.

**Classes.** MW, 12:00 pm–01:15 pm, Innovation Hall, Room 134.

**Instructor.** Dr. Valeriu Soltan. Office: Exploratory Hall, Room 4202. Email: [vsoltan@gmu.edu](mailto:vsoltan@gmu.edu)

**Office hours.** MW, 1:30 pm to 2:30 pm, or by appointment.

**Homework.** Problems for the homework are given in the course outline (see below). Although these will not be collected, success in quizzes, midterm, and final exam strongly depends on their completing and understanding.

**ODS.** If you are a student with disability, please see me and contact the Office of Disability Services. All academic accommodations must be arranged through this office.

**Tests and exam.** There will be ten end-of-class quizzes, two midterms, and final exam. All tests are closed-book and closed-notes. Simple calculators are allowed.

**Grading.** All quizzes make 40% of your grade, midterms are 16% each, and final exam is 28% worth of the total grade. There is no grade curving, dropping, etc. Equivalence between scores and letters, recommended by GMU, is given in the table below.

A+	A	A-	B+	B	B-	C+	C	C-	D	F
100-97	96-94	93-90	89-87	86-84	83-80	79-77	76-74	73-70	69-60	59-0

**Attendance and make-ups.** Each student is expected to come to class regularly. No make-ups for tests are allowed unless you provide a serious written excuse. Excused tests should be taken within a timely fashion before the last day of classes.

**GMU policies on final exams.** The final exam may not be given during the last week of classes. If you need to change the date of your final exam for unusual circumstances or because you have three final exams scheduled in one day, you have to obtain professor's approval at least a week prior to the last day of classes. Retaking quizzes, midterms, and final exam is not permitted.

Absence from the final exam will not be excused except for sickness on the day of the exam confirmed by physician's note or for other causes approved by the student's academic dean or director. If a student missed the final exam due to illness or a family emergency, an incomplete grade (IN) may be assigned provided the student took all three tests with a total score 36 or higher. If absence from the final exam is unexcused, the grade for the course is F.

**Academic integrity and university policies.** Mason is an Honor Code university. See for other policies at <http://universitypolicy.gmu.edu/>. Students are responsible for knowing and following established policies.

**Religious holydays.** If you observe upcoming religious holidays (see <https://ulife.gmu.edu/religious-holiday-calendar/>), please inform me one week in advance about a possible overlap with a day of quiz, midterm, or final exam.

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<b>Class Date</b>	<b>Quizzes</b>	<b>Material Covered</b>	<b>HW Problems</b>
01/21		1.1	<b>1.1:</b> 20, 22, 34, 36.
01/23		1.2	<b>1.2:</b> 24, 28, 36, 44, 50.
01/28	Q1 (1.1)	1.3	<b>1.3:</b> 12, 14, 26, 28, 30.
01/30		1.4	<b>1.4:</b> 1, 2, 7, 9, 11.
02/04	Q2 (1.3)	2.1	<b>2.1:</b> 10, 24, 34, 42.
02/06		2.2	<b>2.2:</b> 10, 18, 22, 28, 32.
02/11	Q3 (2.1)	2.3	<b>2.3:</b> 2, 8, 12, 16.
02/13		2.4	<b>2.4:</b> 4, 8, 16, 20.
02/18	Q4 (2.3)	2.5	<b>2.5:</b> 12, 18, 22, 26, 30.
02/20		<b>Test 1</b>	
02/25		2.6	<b>2.6:</b> 6, 10, 12, 16, 20, 28.
02/27	Q5 (2.5)	2.8	<b>2.8:</b> 4, 10, 16, 20.
03/03		3.1	<b>3.1:</b> 6, 8, 12, 14, 16, 18, 24, 26.
03/05	Q6 (2.8)	3.2	<b>3.2:</b> 2, 4, 6, 10, 16, 20, 24, 28, 32.
03/10		<i>Spring Break</i>	
03/12		<i>Spring Break</i>	
03/17		3.3	<b>3.3:</b> 14, 16, 18, 22, 26, 28, 30, 32, 34, 36.
03/19	Q7 (3.2)	3.3	
03/24		3.4	<b>3.4:</b> 10, 12, 14, 18, 24, 26, 28.
03/26		Practice	
03/31		<b>Test 2</b>	
04/02		4.1	<b>4.1:</b> 2, 6, 10, 14, 16, 26, 28.
04/07		4.4	<b>4.4:</b> 2, 4, 10, 12, 16, 22.
04/09	Q8 (3.3)	10.1	<b>10.1:</b> 10, 14, 18, 22, 26.
04/14		10.2	<b>10.2:</b> 4, 8, 10, 14, 18, 22.
04/16	Q9 (4.4)	10.3	<b>10.3:</b> 6, 8, 12, 16.
04/21		10.4	<b>10.4:</b> 2, 4, 6, 10, 16.
04/23	Q10 (10.1)	10.5	<b>10.5:</b> 4, 12, 18, 26, 32.
04/28		10.6	<b>10.6:</b> 6, 8, 10, 12, 16, 18, 20, 26.
04/30		Practice	
<b>05/07</b>		<b>Final Exam</b>	<b>Cumulative, 7:30 am-10:15 am</b>