Analytic Geometry – Math 111

Instructor
Prof. Oğuz YILMAZ (Office room: MATH 111, Office hour: Wed 1415-1515)

Graders
Hikmet Burak Özcan, Tuğba Yazan

Semester
Fall 2025

Level
Undergraduate

Course overview
We will use Douglas F. Riddle's "Analytic Geometry, Third Edition" book. This course covers the whole textbook.

Course meeting times
Lectures: 3 sessions / week, 45 min / session (Mon 0945-1030, Fri 1330-1530)

Prerequisites
Pre-Calculus.

Exams and Quizzes
There will be twelve quizzes, two mid-term exams, and one comprehensive final exam.

Grading
A student's final grade will be calculated based on the formula: Grade = 20% Quizzes + 40% Midterm + 40% Final. Students must register to the Teams to be able to see their grades.

Weekly Schedule

Students must follow the announcements on the Teams.

Week 1 (29 Sep)		**Week 9 (24 Nov)**	
Plane Analytic Geometry, Chapter 1	- 3 hours	Curve Sketching, Chapter 7	- 3 hours
		Quiz 7	
Week 2 (6 Oct)			
Vectors in the Plane Chapter 2	- 3 hours	**Week 10 (1 Dec)**	
Quiz 1		Transcendental Curves, Chapter 8	- 3 hours
		Quiz 8	
Week 3 (13 Oct)			
The Line, Chapter 3	– 3 hours	**Week 11 (8 Dec)**	
Quiz 2		Polar Coordinates, Chapter 9	- 3 hours
		Quiz 9	
Week 4 (20 Oct)			
The Circle, Chapter 4	– 3 hours	**Week 12 (15 Dec)**	
Quiz 3		2nd Mid Sem Exam – 2 hours	
Week 5 (27 Oct)		**Week 13 (22 Dec)**	
Conic Sections Chapter 5	- 3 hours	Parametric Equations, Chapter 9	- 3 hours
Quiz 4		Quiz 10	

Week 6 (3 Nov) Conic Sections Chapter 5 (Contd.) - 3 hours Quiz 5	**Week 14 (29 Dec)** Solid Analytic Geometry, Chapter 10 - 3 hours Quiz 11
Week 7 (10 Nov) 1st Mid-Sem Exam – 2 hours	**Week 15 (5 Jan)** Solid Analytic Geometry, Chapter 10 - 3 hours Quiz 12
Week 8 (17 Nov) Transformation of Coordinates, Chapter 6 - 3 hours Quiz 6	**Week 16 (12 Jan)** Final Exam – 2 hours