MATH 261 ANALYTIC GEOMETRY COURSE PORTFOLIO

FACULTY OF SCIENCE

MATHEMATICS DEPARTMENT

COURSE NAME:		
COURSE NUMBER:	M A T	H 2 6 1
SEMESTER/YEAR:	1 st Semester	2016/2017
DATE:		

Instructors Information

Name of the coordinator:Khadijah Abdullah Mohammed SharafOffice location:Room : C-157Office hours:Image: Contemport

		Time				
Section	Sunday	Monday	Tuesday	Tuesday	Wednesday	Thursday
Office Hour	8:00-9:00	11:00-12:30	8:00-9:00			
Math 261	9:00-10:00	12:30-1:30	9:00-10:00			
	Room 77-C	Room	Room 77-C			
Math 202	10:00-11:00	77 - C	10:00-11:00	1:00-2:00		
Main 202	10.00-11.00 Room		10.00-11.00 Room	1.00-2.00 Room		
	79-B		79-B	72-C		
Math 463	11:00-1:00		11:00-1:00			
	Room		Room			
	77-C		77-C			
Office Hour	1:00-2:30	1:30-2:30				

Contact number(s): E-mail address(s): Coordinator's profile (optional):

Contact number(s): 012-6952000 Ext 63566 E-mail address(s): ksharaf@kau.edu.sa

(insert your picture here)

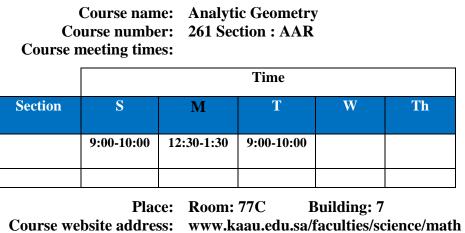
For multi-instructor courses:

Name of the	Section	Office	location		Of	fice hou	ırs		Contact	E-mail
instructor Section	Section	Room	Building	S	S	Μ	Т	W	number	address

A welcome letter to the student

(optional):

Course Information



Course website address: Course prerequisites and requirements:

Course name	Course number
Math	202

Description of the course:

1-Euclidean Axiom's, Distance formula, Point-ofdivision formula, Inclination. Slopes, Angle between lines.

2-Line , one point form, two points form, slope form, The Line, intercept form, applications.

3-Circles, standard & general forms, Tangents to circles.

4-Conics, parabola, ellipse, Hyperbola, tangents to these curves. Transformations.

5- Hyperbola, tangents to these curves.

6- Directed line segments and vectors, dot product, Vectors in space, cross product, eqns. Of line & plane. At the end of the course, students should have a strong working knowledge and they will be able to understand and accomplish the following :

- The relationship between Algebra and Geometry.
- The concepts of inclination, slope, and tangent.
- Recognizing the different formula for an equation of a line in a plane and space.
- Seeing the difference among the distance between two points, distance from a point to a line, and a distance from a point to a plane.
- Illustrating the difference between the standard form and the general form for an equation of a circle.
- Studying the conic sections and to understand its translation and rotation.
- Understanding the relationship between rectangular and polar coordinates.
- Studying the conic sections in polar coordinates.
- Studying the parametric equations.
- Introducing the solid analytic geometry.
- Introducing the concept of mathematical objects in space. Studying planes, lines, spheres and various other surfaces.

Learning Resources

Textbook:Title: Analytic Geometry 6th edition
Author: Douglas R.Riddle (1995)
Publisher: Brooks/Cole Pub.Co.
Found in: Libraries and book shops

Course Requirements and Grading

Methods of Assessments:

1- Coursework

Assessment Type	Notes	10% Formal Assessment
In course Assessment	Every 2 weeks solve section	
	problems	
Total Percentage		10%

2- Exams

First Periodic Exam	Second Periodic Exam	Quiz	Quiz	Project	Final Exam
Monday 31-10-2016	Monday 19-12-2016	Monday 31-10-2016	Monday 19-12-2016		
MCQ & Written	MCQ & Written	MCQ & Written	MCQ & Written 5	Project	MCQ & Written
20	20	2.5	2.5	15	40

Expectations from Students

- Students must be responsible of attending exams.
- Students should be aware how to use computer programs.
- No makeup exams. The mark for the missed exam according to an acceptable excuse will be added to the mark of the final exam.
- Any student that exceeds a 20% (9 Lectures) absence with no acceptable excuse will deprived from entering the Final exam.
- Cheating in any periodic or quizzes exams will be punished by getting Fail mark.
- Cheating in Final exam will held to fail in the exam and expel from university for the next term.
- The IC Grade is given only at the following case:
 - 1-Attending all exams and missing the final.
 - 2-Not exceeding 20% absent time.
 - 3-An official illness report.

Math 261 Schedule 1st Semester 2016-2017

Week #	Date	Торіс	Reading Assignment	What is Due?
	Sep.18	Introduction to the course		Buy Book
1 S	Sep.19	Introduction to the course		
	Sep.20	Introduction to the course	-	
	Sep.25	Section 1.1	Chapter 1	
2	Sep.26	Section 1.2	Chapter 1	
	Sep. 27	Section 1.3	Chapter 1	
	Oct.2	Section 1.4	Chapter 1	
3	Oct.3	Sections 1.4 & 1.5	Chapter 1	
	Oct. 4	Section 1.5	Chapter 1	Section Problems
4 Oct.9 4 Oct.10 Oct.11	Oct.9	Section 1.6	Chapter 1	
	Oct.10	Section1.6 &1.8+ Exercise Solu	Chapter 1	
	Oct.11	Section 3.1	Chapter 3	Section Problems
5	Oct.16	Section 3.1 & 3.2	Chapter 3	
	Oct.17	Section 3.2	Chapter 3	
	Oct.18	Section 3.3	Chapter 3	Section Problems
(Oct.23	Sections 3.4 & Exercise Solution		
6	Oct.24	Sections 4.1	Chapter 3	
	Oct.25	Section 4.1	Chapter 4	Section Problems
	Oct.30	Section 4.2	Chapter 4	
7	Oct.31	First Periodic Exam	Chapter 4	
	Nov.1	Section 4.2 & Exercise Solution	Chapter 4	
	Nov.6	Section 5.1& 5.2	Chapter 5	
8	Nov.7	Section 5.2 & 5.3	Chapter 5	
	Nov.8	Section 5.3	Chapter 5	Section Problems
	Nov.20	Section 5.4	Chapter 5	
9	Nov.21	5.4 & Exercise Solution	Chapter 5	
	Nov.22	Section 6.1	Chapter 6	

Week #	Date	Торіс	Reading Assignment	What is Due?
	Nov.27	Section 6.1	Chapter 6	
10 Nov.	Nov.28	Section 6.1 & Exercise Solution	Chapter 6	
-	Nov.29	Section 2.1	Chapter 2	Section Problems
	Dec.4	Section 2.1 & 2.2	Chapter 2	
11	Dec.5	Section 2.2 & Exercise Solution	Chapter 2	
	Dec.6	Section 9.1	Chapter 9	
	Dec.11	Second Periodic Exam		
12	Dec.12	Section 9.1	Chapter 9	
	Dec.13	Section 9.1& 9.2	Chapter 9	Section Problems
	Dec.18	Section 9.2 & 9.3	Chapter 9	
13 Dec.19 Dec.20	Dec.19	Second Periodic Exam	Chapter 9	
	Dec.20	Section 9.3	Chapter 9	
	Dec.25	Section 9.4	Chapter 9	
14	Dec.26	Section 9.4 & 9.5	Chapter 9	
	Dec.27	Section 9.5	Chapter 9	Section Problems
	Jan.1	Section 9.6	Chapter 9	
15	Jan.2	Section 9.6	Chapter 9	
	Jan.3	Section 9.6 & Exercise Solution	Chapter 9	Section Problems
		Final Exam		