Instructor: Dr. Keith Hubbard
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Office: NM 336
Office Phone: (936) 468-1533

Office Hours: Monday 8:50-9:50, 1:00-1:50
Tuesday 1:00-1:50, 3:20-5:00
Wednesday 8:50-9:50, 1:20-1:50
Thursday 1:00-1:50, 3:20-5:00
Friday 8:50-9:50, 1:00-1:50
or by appointment

Required Text: Analytic Geometry, 6th edition, by Douglas F. Riddle. You should look at each section before it is covered in class.

Calculator: You are required to have a graphics calculator.

Assessment: Your grade will be computed as follows:

Homework: 20%
In Class Exams: 3@ 20% each
Comprehensive Final Exam: 20%

Please note that the dates for our in-class exams below are subject to change.
Exam I Friday, September 22
Exam II Monday October 16
Exam III Friday, November 10
Final Monday, December 11, 10:30-12:30

Classroom and Grading Policies:

• Please note that while in-class exams are subject to change, the final examination is scheduled by the university and will not be given at other times. Having a flight or a ride that leaves early is not an exception.

• You may not make up any missed exam. If an emergency arises, contact me prior to the exam (468-1533) to make arrangements.

• If your final exam score is 70 or greater and you have taken every test, I will replace the lowest of any one of your exam scores or your homework average with your final exam score.

• Come see me in my office if you have specific questions over the material. Before coming, be sure to try to answer the problem yourself.

• For each absence (that I record) beyond three, two percentage points will be deducted from your class average. In case you are absent, you are responsible for determining what you missed and for being prepared for class when you return.

• I expect you to attend class every day, do all assigned homework, participate in class, read the book, and ask questions.

• Cell phones– Please do not use them, or allow them to ring, in class.

• Academic Honesty– Academic honesty is expected (no cheating). Cheating will result in assignment of a zero on the exercise or examination for both parties involved since it is often difficult to determine who copied and who allowed the copying. In addition to receiving a zero for the assignment (which will remain part of the final course average), I will write a letter for your student record and the University Committee on Academic Integrity may assess additional penalties.

• Students with Disabilities – To obtain disability related accommodations, students must contact the Office of Disability Services, Human Services Building, Room 325, 468-3004. Please do so as early as possible if accommodations are needed.
• Supplemental Instruction (SI) – An SI group is planned for this course. Your SI leader, Meghan Ward, will be available Tuesdays and Thursdays from 5-6pm to review class material and discuss homework problems.

Course Content: Below is a tentative list of sections and topics planned for this fall.

1.1 The Cartesian Plane
1.2 Distance Formula
1.3 Point-of-Division Formulas
1.4 Inclination and Slope
1.5 Parallel and Perpendicular Lines
1.6 Angle for One Line to Another
1.7 Graphs and Points of Intersection
1.8 An Equation of a Locus
2.1 Directed Line Segments and Vectors
2.2 The Dot Product
3.1 Point-Slope and Two-Point Forms
3.2 Slope-Intercept and Intercept Forms
3.3 Distance from a Point to a Line
3.4 Families of Lines
4.1 The Standard Form for and Equation of a Circle
4.2 Conditions to Determine a Circle
5.1 Introduction (to Conic Sections)
5.2 The Parabola
5.3 The Ellipse
5.4 The Hyperbola
6.1 Translation of Conic Sections
6.2 Translation of General Equations
6.3 Rotation
6.4 The General Equation of Second Degree
7.1 Symmetry and Intercepts
7.2 Sketching Polynomial Equations
7.3 Asymptotes
7.4 Sketching Rational Functions
8.1 Polar Coordinates
8.4 Relationship between Rectangular and Polar Coordinates
8.2 Graphs of Polar Coordinates

I will assign homework from the sections as we discuss them. Homework must be turned in on clean, loose-leaf paper (not torn from a spiral) and must be stapled (not folded in the corner and torn) to be graded. It is imperative that you keep your studies current. We will discuss questions over homework that you have attempted at the beginning of each meeting. Be sure that you are prepared to ask questions over material that we discussed in the previous meeting. You should come to speak with me during my office hours if your questions do not address the section covered in the previous meeting.