Prerequisites

MAT 130 or placement by the Mathematics Diagnostic Test. Prerequisites are strictly enforced by the Math Department. A prerequisite can only be waived by the approval of the instructor and the department chair.

Textbooks and other materials


Summary of Course

Chapter 4 – Polynomials and Rational Functions
4.5 Real zeros of a polynomial function
Appendix A.7 Complex numbers
4.6 Complex zeros and the fundamental theorem of algebra

Chapter 6 – Trigonometric Functions
6.1 Angles and their measures
6.2 Trigonometric functions
6.3 Properties of the trigonometric functions
6.4 Graphs of the sine and cosine functions
6.5 Graphs of the tangent, cotangent, cosecant, and secant functions
6.6 Phase shift

Chapter 7 – Analytic trigonometry
7.1 The inverse sine, cosine, and tangent functions
7.2 The inverse trigonometric functions (continued)

Chapter 7 – Analytic trigonometry (continued)
7.3 Trigonometric identities
7.4 Sum and difference formulas
7.5 Double angle and half angle formulas
7.6 Product to sum and sum to product formulas
7.7 Trigonometric equations

Chapter 8 – Applications of Trigonometric Functions
8.1 Applications involving right triangles
8.2 The law of sines
8.3 The law of cosines
8.4 Area of a triangle

Chapter 9 – Polar coordinates and vectors
9.1 Polar coordinates
9.2 Polar equations and graphs
9.3 The complex plane; DeMoivre’s Theorem
Homework and Grading Policy

Midterm and final exams, in class and closed book will count equally in determining a preliminary grade. Homework will be assigned each class day, discussed the next class day, collected the next class day and will increase or decrease the preliminary grade by at most one grade. For example, B+ and satisfactory homework = A-. Make-up exams will not be given. The final exam will be from 8:45-11:00 on Thursday, November 15, 2012.

Methods

Classroom lectures and discussion.

DePaul University's Academic Integrity Policy

Students must abstain from any violations of academic integrity and set examples for each other by assuming full responsibility for their academic and personal development, including informing themselves about and following the university's academic policy. Violations of academic integrity include but are not limited to the following categories: cheating; plagiarism; fabrication; falsification or sabotage of research data; destruction or misuse of the university's academic resources; alteration or falsification of academic records; and academic misconduct. Conduct that is punishable under the Academic Integrity Policy could result in additional disciplinary actions by other university officials and possible civil or criminal prosecution. To review the complete Academic Integrity Policy of the University, please go to http://tinyurl.com/cv2c8xo.

Students with Disabilities

Students who feel they may need an accommodation based on the impact of a disability should contact me privately to discuss their specific needs. All discussions will remain confidential. To ensure that you receive the most appropriate accommodation based on your needs, contact me as early as possible in the quarter (preferably within the first two weeks of class), and make sure you have contacted the Center for Student Disabilities at 773-325-1677 in Student Center 370.