MATH 489 – Math Foundations & Applications
Course Syllabus
Summer 2010

Professor: Chris Sinquefield

Office: 1 Physical Sciences building, Texarkana College

Office Hours: Available with appointment

Office Phone: 903-838-4541, ext. 3318 (switchboard)
903-832-5565, ext. 3318 (direct dial)

Email: csinquefield@texarkanacollege.edu
Chris.Sinquefield@tamut.edu

Course Number: MATH 489

Course Title: Math Foundations & Applications

Course Times: N/A

Catalog Description: Further study in mathematics including geometry, probability, statistics, applications of trigonometry and concepts of calculus. Appropriate technology will be used.

Prerequisites: MATH1314, 1316, 1350 and 1351 or Approval of instructor

Text: ***The Mathematical Palette***,
Staszkow & Bradshaw, 3rd ed., Cengage
ISBN-10: 0534403654
ISBN-13: 9780534403652
Retail Price: $163.99

Required Materials: ***Student Study Guide***
ISBN-10:0534403662
ISBN-13:9780534403669
Retail Price: $54.95
TI-83 calculator

Course Objective

The principal objective in this course is that the student acquires the knowledge, understanding, and skills that would be expected of a student in a traditional classroom setting. To that end, they must demonstrate the same level of mastery as those students who would benefit from direct instruction.

Learning Objectives

The curriculum of study will be based on the curriculum which composes **MATH 352 – Math Foundations and Applications**. The course will cover 5 units. They are Algebra, Trigonometry, Geometry, Probability/Statistics, and Calculus. These units are foundational in nature with applied exercises to reinforce the concepts.

Evaluation and Grading

There will be five unit exams covering the five units of study. The student must demonstrate 70% mastery on each unit. Within each unit, there will be non-credit practice quizzes and additional exercises from the text.

Work Plan

The course will be composed of a minimum of 135 clock hours. The breakdown of these hours is as follows:

Unit presentation – 1 hour	x 5 units	= 5 hours
Follow up meeting – 1 hour	x 5 units	= 5 hours
Exam - 1 hour	x 5 units	= 5 hours
Individual study - 24 hours	x 5 units	= 120 hours

The student will be responsible for keeping a log of individual study hours per unit by time and date. The log will be presented prior to each unit exam for instructor approval.

The course will be self-paced in that the student may choose to spend longer on a unit if necessary to ensure success. The student may not however engage in less that 120 hours of individual study time overall.

All unit exams will be administered in the testing center.

Calculator

TI-83 graphing calculators will be available through TAMU-T for student use during this course. Calculators are checked out through the library. You should return the calculator to the library upon completion of the course.

Academic Integrity

Academic honesty is expected of students enrolled in this course. Cheating on examinations, unauthorized collaboration, falsification of research data, plagiarism, and undocumented use of materials from any source, constitute academic dishonesty, and may be grounds for a grade of "F" in the course and/or disciplinary actions." For additional information see the university policy manual.

Disability Accommodation

Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.

Additional Notes

The instructor reserves the right to modify this syllabus at any time as deemed necessary. Any modifications will be announced as soon as possible. The faculty of the College of Science, Technology, Engineering, and Mathematics is committed to the continuous improvement in the quality of instruction. Student input is important and will be obtained at the end of the course.