Course Information

Meeting Time and Place: W 7:00 PM – 9:30 PM CCH 206
Instructor: Coulibaly Nene
E-MAIL: Nene.Coulibaly@tamucc.edu
Web Page Address: (under construction)
Office Address: CI 354
Office phone: 361-825-2219
Office hours: MTWR 4:20 PM – 5:20 PM

Course Description:

This is a non-traditional math course with applications in business. It involves group projects, oral presentations, and written reports, using Excel to solve math problems, and the use of Power Point and the equation editor in Word. In this class, we develop the fundamentals of calculus and optimization using technology. This includes Demand, Revenue, Cost, and Profit; Differentiation; Integration; Graphing Functions; Trend Lines; Using Solver; Distributions; Variance; The Sample Mean; Normal Distributions; and Simulating Normal Random Variables.

Prerequisites for the course:
Successful completion of Business Mathematics (Math 1324) or suitable placement.

Text and other supplies required:


Learning Objectives

After completion the course, students should be able to
1. Graph functions using excel.
2. Use Trend Lines to fit data.
3. Apply Demand, Revenue, Cost, and Profit concepts to real life situations.
4. Understand Differentiation and apply it to real life problems.
5. Use Solver via Excel to solve optimization problems.
6. Understand Integration and apply it to real life problems.
7. Understand and use Distributions of Finite and Continuous Random Variables and Random Sampling.
8. Understand and use the concept of Variance.
9. Compute and graph the Sample Mean for different random samples.
10. Understand and use Normal Distributions (Standard, General) for a variety of random variables.
11. Simulate Normal random Variables
12. The learner will strengthen his or her general academic skills (critical thinking, writing, verbal explanation, working collaboratively, assuming responsibility, and use of technology).
13. The learner will develop a broad base of business mathematics knowledge: Concepts, Basic skills, mathematical senses (quantitative, geometric, symbolic), and thinking process (problem solving, predicting, and generalizing).

**Instructional Methods and Activities**

**Class lectures** will include the following: presentation of material and concepts from the PP, problem solving techniques, and class discussions.

**Class work and Homework** will be given on the regular basis and should be completed for the grade. Due dates of the Homework will be announced in class. Students will be given opportunity to ask questions about the homework at the beginning of each class.

**Other Assignments:** Extra credit assignments, class work, and projects will be given periodically throughout the semester and students will be able to have additional points to their Test grades.

Students will be given **team assignments** that will be designed to help integrate basic models and a discovery method of learning. Final reports will be presented in both written and oral forms.

**Tests:** Students will test mastery of skills through two tests and Final Exam. All the tests must be neat and thorough.

**Final Exam is comprehensive.**

**GRADING**

The following assessments will be given during the semester: two examinations (20% each), final exam (25%), two team projects (10% each), and several team homework (15%). Each team will give both preliminary and final reports on the projects (**Marketing Computer Drives** and **Bidding on Oil Leases**). Final reports will be presented in both written and oral forms and should include a word file, an Excel file, and a PPT file. All formats will be announced in class and posted on Blackboard.

**In summary:**

<table>
<thead>
<tr>
<th>Final grades will be assigned as follows</th>
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<tbody>
<tr>
<td>2 Exams = 40% of grade</td>
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<tr>
<td>2 Team Projects= 20% of grade</td>
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<tr>
<td>Homework = 15% of grade</td>
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<tr>
<td>Final Exam = 25% of grade</td>
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<td>Below 60% = F</td>
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**Academic Integrity/Plagiarism**

University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in failing the course.
**Dropping a Class**

I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with me before you decide to drop to be sure it is the best thing to do. Should dropping the course be the best course of action, **you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class.** (November 4th 2011) is the last day to drop a class with an automatic grade of “W” this term.

**Preferred methods of scholarly citations**

**Classroom/professional behavior**

Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

**Grade Appeals**

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

**Disabilities Accommodations**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call or visit Disability Services at (361) 825-5816 in Driftwood 101. If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

**Study Hints:** If you are having trouble with the material and are unable to see me during my office hours, you may get tutoring at the CASA on the second floor of the library. They have computers, skilled tutors and good places to work on assignments and answer questions. Whatever you choose to do, it is important not to fall behind in the material.

**Computer activities that are not related to class are not allowed during the class.**

Good luck and let's have a great semester!
TENTATIVE SCHEDULE FOR MATH-1325-004

Aug.  24-  Introduction to the Course and Project 1
       Graphing Functions I
       Graphing Functions II  Homework # 1 Due
       Trend Lines I

Sept.  7-  Demand, Revenue, Cost, and Profit I  Homework # 2 Due
         Demand, Revenue, Cost, and Profit II
  14-  Demand, Revenue, Cost, and Profit III
       Differentiation I
  21-  Differentiation II  Homework # 3 Due
         Differentiation III
  28-  Solver
         Integration I  Homework # 4 Due

Oct.  5-  Integration II
        Integration III
  12-  Focus on Project 1  Homework # 5 Due

          Final Presentation of Project 1

  19-  Midterm Exam 1
        Distribution I
  26-  Distribution II
        Variance

Nov.  2-  The Sample Mean
        Normal Distributions I
  4-  ***** LAST DAY TO WITHDRAW*****
  9-  Normal Distributions II  Homework # 6 Due
        Simulation Normal Random Variables
  16-  Focus on Project 2
          Focus on Project 2  Homework # 7 Due

  23-  Final Presentation of Project 2
          Midterm Exam 2

  24-  *****NO CLASS : Thanksgiving Holidays*****
  25-  *****NO CLASS : Thanksgiving Holidays*****

Dec.

          Wednesday, December 14th: FINAL EXAM @ 7:15 PM – 9:45 PM