I. Course Information:

Instructor: Dr. Ping-Jung “Charlene” Tintera  
Office: CI-368  
Phone: 825-3483  
Class meeting: MTWRF 12 – 3:45 pm  
Office hours: MTWR: 11 to 12 noon  
Email: ptintera@tamucc.edu  
Final Exam: 5/30/2014 during class hours  
(no school on the 26th Monday of May, Memorial Day)

II. Course description:

This course combines the knowledge of college algebra and business mathematics with applications in business field. We will work on the business calculus and optimization in depth. This includes Limits and continuity, derivatives, graphing and optimization, exponential and logarithmic functions. Demand, Revenue, Cost, and Profit, Differentiation (Rate of Change) and its applications to management, economics, and business.

III. PREREQUISITES FOR THE COURSE:

Math 1324 Business Mathematics or placement into Math 1325.

IV. TEXT AND OTHER SUPPLIES (online):

- TEXT: College Mathematics for Business, Economics, Life Sciences, and social Sciences, 12th Ed. By Barnett, Ziegler, and Byleen. Person publishing. Also, handouts will be provided during the class and homework will be assigned at each class meeting.

V. STUDENT LEARNING OUTCOMES:

This course is designed to enable students to understand and work comfortably with:

- Problem solving skills and analyzing graphs,
- Conceptual understanding of mathematics in business fields,
- Using technology in industrial and business,
- Combining technology and mathematics terms in business world.

VI. Instructional methods and activities:

Methods and activities for instruction include:

- Instructional presentation of new material and concepts,
- Class discussion and problem solving analysis using critical thinking techniques,
- Individual written assignments to enhance understanding of new concepts,
- Discovery method techniques supported by a graphing utility to view the effects of shifting and translation concepts on the functions,
- Optional 1-to-1 discussion time between students and instructor during office hours.

VII. Evaluation and grading polices:

Attendance: MANDATORY

Tests/Final: 75% (3 test scores 25% each) 
final: 25% (comprehensive) 
VIII. Class policies:

- Attendance is mandatory. Attendance will be checked each class period and each absence after 3 times (4th and 5th) will result in one letter grade lower (6th absence will result in two-letter-grade lower). Please save absences for emergencies.
- Homework will be given each class period and discussed at the beginning of next class period.
- Cell phone usage is prohibited in any circumstances. If students reject to put away the cell, she or he will be asked to leave the classroom and be treated as cheating on the test.
- Cheating is strongly prohibited. If I caught someone cheating during any test, students may drop the class without my permission. If not, normally it is an “F” for the semester grade.
- You are the only person responsible to drop the class and responsible to stay informed for any changes for tests and room changes. All the changes will be announced in the class.
- You may email me for help any time but not the night before the scheduled test neither the possible chance to postpone the test.
- I respect your request by email and I will answer it in my best convenient time. Please pay respect to the class (both teacher and other students) by not eating and not talking during the class.
- Makeup test will be given once per student with appropriate documentation provided. Please save the opportunity for the emergencies.
- **There is no makeup final exam.** It will be an “F” for the semester grade regardless.
- Help: Tutoring and Learning Center has many quality tutors to help you while you need someone beside my office hours. Welcome to visit those tutors at the second floor of library. Please find out their schedule first before you make a plan to go for this semester. I will be happy to work with you anytime during my office hours and also email me for your special needs. Good luck to everyone in the class.
- This syllabus is a contract between students and the instructor. If you have any question regarding to this class, this syllabus will be activated from now and through this semester.

IX. Tentative schedule:

<table>
<thead>
<tr>
<th>Daily</th>
<th>Work/Assignment</th>
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<tbody>
<tr>
<td>May 15</td>
<td>Limits and continuity</td>
</tr>
<tr>
<td>May 16</td>
<td>Computation of limits and the derivative of constants, power forms, and sums of products, quotients, and power form</td>
</tr>
<tr>
<td>May 19</td>
<td>Test 1, applications of logarithms and exponential functions in business</td>
</tr>
<tr>
<td>May 20</td>
<td>Techniques of derivatives and sketching of optimization and find the extrema of functions, Computing 1st and 2nd order partial derivatives, and then use them to find maxima and minima of functions of two variables.</td>
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<tr>
<td>May 21</td>
<td>Evaluate the cost, revenue, and profit functions and determine the Break-Even points in the business world</td>
</tr>
<tr>
<td>May 22</td>
<td>Fundamental Theorem of Calculus, find the average value of a function and further applications to business such as consumers’/producers’ surplus</td>
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<tr>
<td>May 23</td>
<td>Test 2 and compute antiderivatives and understand the concept of integration as it relates to area.</td>
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<tr>
<td>May 27</td>
<td>Apply integration as it relates to area between curves and accumulated change.</td>
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<tr>
<td>May 28</td>
<td>Test 3 and Integration by substitution and definite integrals</td>
</tr>
<tr>
<td>May 29</td>
<td>Finding the area, the definite integral and definite integral as a Limit of a sum</td>
</tr>
<tr>
<td>May 30</td>
<td>Final exam</td>
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(Dates and materials for covering sections of the text, and exams are subject to change.)

*Notice to Students with Disabilities*: Texas A&M University-Corpus Christi complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. If you suspect that you may have a disability (physical impairment, learning disability, psychiatric disability, etc.), please contact the Services for Students with Disabilities Office, located in Driftwood 101, at 825-5816. If you need disability accommodations in this class, please see me as soon as possible.
IX. CLASS POLICIES

- This class is run for the mathematical development of all participants. All students must accept responsibility for participating and consequences of not participating. All are encouraged to express personal views with an emphasis on evidence-based claims. An inviting, lively and informative discussion will ensue from a spirit of mutual respect and acknowledgement.

- Please silence phones and beepers before coming to class. If you need to take a call, please step out so as to not distract your colleagues from the business at hand.

- Attendance is expected. It is the only way to do in-class work.

- All absences from class or exams will be considered unexcused unless they are documented in advance as excusable with the instructor or as soon as possible in the case of emergencies. No credit will be awarded for work missed resulting from unexcused absences.

- **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 a grade of zero (0) on that assignment or an F in the class, depending on circumstances.

- **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. ( ) is the last day to drop a class with an automatic grade of “W” this term.

- **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. Also, Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

- **Grade Appeals (College of Science and Engineering Version)**: As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, 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 Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage (http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **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 Corpus Christi Hall 116.
• **Notice to Veterans:** 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.

• **Statement of Academic Continuity:** In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

• **Changes.** The instructor may amend the syllabus at any time prior to the final exam by announcing the changes in class.