Calculus for Business and Social Sciences
MATH 1325.68440
FALL 2019
10/22/19 – 12/12/19

Professor: Kumars Ranjbaran
Email: kranjbaran@dcccd.edu
Office Phone Number: (214) 860 – 8854
Office Number: W191b
Office Hours: TBA
Meeting Days & Time: Online
Room Number: N/A
Credit Hours: 3 semester hours

Division: Science, Technology, Engineering, & Mathematics (STEM)
Office Hours: M – F 8:00 am – 5:00 pm
Office Phone: 214-860-8760
Office Number: W147

Both Mountain View College and your instructor reserve the right to make modifications in content, schedule, and requirements as necessary to promote the best education possible within prevailing conditions affecting this course.

Course Description: Limits and continuity, derivatives, graphing and optimization, exponential and logarithmic functions, antiderivatives, integration, applications to management, economics, and business. This course is cross-listed as MATH 1425. The student may register for either MATH 1325 or MATH 1425 but may receive credit for only one of the two.

Course Pre-requisites: MATH 1324 or MATH 1314.

Course Materials/Supplies Needed
Required:
Mymathlab
Student Kit by Pearson is called MyMathLab. This may be purchased through Follet Bookstores http://www.efollett.com, or you may purchase this software online by going to http://www.MYMATHLAB.com
TI – 83 PLUS OR TI-84 PLUS CALCULATOR REQUIRED

SOLUTION MANUAL (9780321946775)
THECB Learning Outcomes
Upon successful completion of this course, students will:
1. Apply calculus to solve business, economics, and social sciences problems.
2. Apply appropriate differentiation techniques to obtain derivatives of various functions, including logarithmic and exponential functions.
3. Solve application problems involving implicit differentiation and related rates.
4. Solve optimization problems with emphasis on business and social sciences applications.
5. Determine appropriate technique(s) of integration.
6. Integrate functions using the method of integration by parts or substitution, as appropriate.
7. Solve business, economics, and social sciences applications problems using integration techniques.

Core Statement:
MATH 1325 is a Tier 1 course in the Quantitative Reasoning learning category. “Knowledge and skills that are important to your success in other college courses will be introduced and reinforced in Tier 1. The Quantitative Reasoning category promotes the application of mathematics to increase your ability to solve “real-world” problem. When you are quantitatively literate, you can use logic and critical thinking in new ways.” - Catalog of the Colleges of DCCCD

MATH 1325 develops the following Core Objectives:
Critical Thinking - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
Communication - to include effective development, interpretation and expression of ideas through written and visual communication.
Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Core Objective Development Statement:
MATH 1325 develops Critical Thinking, Communication, and Empirical and Quantitative Skills by requiring students to apply differentiation and/or integration techniques to solve business, economics, and social sciences problems.

Course Outline:
Chapter 10 Limits and the Derivative
Chapter 11 Additional Derivative Topics
Chapter 12 Graphing and Optimization
Chapter 13 Integration
Chapter 14 Additional Integration Topics
Chapter 15 Multivariable Calculus

Instructor Attendance Policy:
Students are expected to attend all classes. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early.

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit.
for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.

Evaluation Procedures:

Assessment & Evaluation Procedures of Course Learning Outcomes Evaluation, Grading, & Expectations

COURSE GRADE
The course grade is determined by the following components:
1. Homework
2. Practice Tests
3. Tests & Final Exam

1. HOMEWORK:
Homework is the most important learning tool in a course. Once you login to MyMathLab.com, you should follow these steps: 1. Click on MATH 1325, on the left hand side. 2. Click on the DO HOMEWORK tab, and you will see the list of your homework assignment with the due date next to each assignment. There is no penalty for making mistake when you are working on your homework problems. As long as you click on the similar exercises tab, and you solve the problem correctly, you will receive the full credit for that problem. You have up 3 chances, to receive the full credit for the problems.

2. PRACTICE TESTS:
Practice Tests are uploaded into MyMathLab. After you have taken and passed the practice test, then you are ready to take a test. There are a total of 4 PRACTICE TESTS, and you are allowed to take each of the practice tests up to 3 times, and your highest score will be recorded.

Your practice Tests are all online, and in order for you to take them you should go to MyMathLab.com, and click on Assignment tab. Please, use the planner, on the last page of this syllabus to make sure about the due date of these tests. You are able to print your Practice Test, after completing of your first attempt. One of the lowest Practice test grades will be Dropped.

3. TESTS:
There will be 3 major tests, in addition to a comprehensive final exam.
Your Tests are all online, and in order for you to take them you should go to MyMathLab.com, and click on Take a Test tab. Please, use the planner, on the last page of this syllabus to make sure about the due date of these tests.
YOU MAY TRY EACH ONE OF YOUR TESTS UP TO TWO TIMES.

One of the lowest Test grade will be dropped.
THE DUE DATES ARE SET IN STONE, FOR PRACTICE TESTS, AND THE TESTS!!

COMPUTING YOUR GRADE:
The course grade will be determined as follows:
Homework: 25%
Practice Tests: 15%
Tests: 60%

FORMULA:
Course Grade = (H.W. * 0.25) + (Ave. of Practice Tests * 0.15) + (Ave. Tests * 0.60

Grading Scale:
90-100 = A
80-89 = B
70-79 = C
65-69 = D
65 or less = F

Late Work Policy:
None

Makeup Exam Policy:
None.
Unless in emergency cases, such as Natural disaster, Hospitalization, and etc…
For every one of these cases, a proper documentation is required for granting a Makeup Exam.

Electronic Devices:
Scientific Calculator.

Certification Procedures: (For Online Courses)
Please, reply to this email(kranjb_math@dcccd.edu), by the CENSUS DAY, which is Monday, October 28th, 2019, with the following information:

1. First and last name, as it appear in your admission enrollment papers.
2. An alternate email address, if it is available
3. A phone number, and a time that I can reach you. If you are not in the Central Zone, please indicate your time Zone.

DROP POLICY
You are expected to participate in class regularly. You need to consult with the instructor when absences (course inactivity) are necessary for any extended period of time. If you are unable to complete this course,
you must officially withdraw by **Wednesday, November 27th, 2019**. Withdrawing is a formal procedure which you must initiate; **your instructor cannot do this for you**.

The process can be done by mail or email, however, if started soon enough. You must call the counseling center from your home campus. For Mountain View students that is 214-860-3632. **Be sure to e-mail your instructor if you have questions or concerns before dropping the course.** Students registered through the Dallas TeleCollege (open enrollment) can find drop information under the “admissions” section of the TeleCollege web page.

If you stop participating and do not withdraw, you will receive a performance grade, usually an F. If you are considering dropping this class, please discuss it with me or with a counselor. Often there are other alternatives. We want to help you explore all the alternatives before you drop the course.

All Dallas County Community Colleges charge a higher tuition rate to students registering the third time for a course. This rule applies to the majority of credit and Continuing Education / Workforce Training courses. Developmental Studies and some other courses are not charged a higher tuition rate. Third attempts include courses taken at any DCCCD college since the fall 2002 semester. For further information, go online to: [http://www.DCCCD.edu/thirdcourseattempt](http://www.DCCCD.edu/thirdcourseattempt).

**The withdraw date for this class is Wednesday, November 27th, 2019.**

The **Office of Institutional Equity**, in coordination with DCCCD colleges, has the primary responsibility for reviewing, updating and implementing compliance policies and procedures. The Institutional Equity and Compliance Officer and the Office of Institutional Equity will ensure compliance with College District policies, federal and state laws related to sexual assault, Title IX, Title II (Americans with Disabilities Act) and the Military Veterans Full Employment Act to support diversity and inclusion.

**Students with Disabilities:**
If you are a student with a disability and/or special needs, or if you think you may have a disability, please contact the college Disability Services Office (DSO). Please note that all communication with DSO is confidential. If you are eligible for accommodations, please provide or request that the DSO send your accommodation letter to me as soon as possible (students are encouraged to contact DSO at the beginning of the semester). For more information regarding the College Disability Services Office, please visit the Student Services website: dcccd.edu/DSO Offices or contact DCCCD Office of Institutional Equity at (214) 378-1633.

**College Disability Services Offices**

<table>
<thead>
<tr>
<th>Location</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Brookhaven</td>
<td>972-860-4673</td>
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<tr>
<td>Cedar Valley</td>
<td>972-860-8119</td>
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<tr>
<td>Eastfield</td>
<td>972-860-8348</td>
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<tr>
<td>El Centro</td>
<td>214-860-2411</td>
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<tr>
<td>Mountain View</td>
<td>214-860-8677</td>
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<tr>
<td>North Lake</td>
<td>972-273-3165</td>
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<tr>
<td>Richland</td>
<td>972-238-6180</td>
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**A Note on Harassment, Discrimination and Sexual Misconduct**
We are committed to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and DCCCD policy prohibit harassment, discrimination and sexual misconduct. If you encounter harassment, sexual misconduct (sexual harassment, sexual assault, stalking, relationship violence, stalking), retaliation or discrimination based on race, color, religion, age, national origin, disability, sex, sexual orientation, gender identity, and/or gender expression, please contact your College Title IX Coordinator or the Office of Institutional Equity. We treat this information with the greatest degree of confidentiality possible while also ensuring student welfare and college safety.
We are concerned about the well-being and development of our students, and are available to discuss any concerns. There are both confidential and non-confidential resources and reporting options available to you. If students wish to keep the information confidential, please contact the college Counseling or Student Health Services. As required by DCCCD policy, incidents of discrimination and/or sexual misconduct shared with faculty will be reported to the College Title IX Coordinator or District Title IX Coordinator. The Title IX Coordinator will contact the student and determine if further investigation is needed. For more information about policies, resources or reporting options, please contact your college Title IX Coordinator or visit www.dcccd.edu/titleIX.

### College Title IX Coordinators

<table>
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<tr>
<th>College</th>
<th>Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>Brookhaven</td>
<td>Terri Edrich</td>
<td><a href="mailto:TitleIX-BHC@dcccd.edu">TitleIX-BHC@dcccd.edu</a></td>
<td>972-860-4825</td>
</tr>
<tr>
<td>Cedar Valley</td>
<td>Grenna Rollings</td>
<td><a href="mailto:TitleIX-CVC@dcccd.edu">TitleIX-CVC@dcccd.edu</a></td>
<td>972-860-8181</td>
</tr>
<tr>
<td>Eastfield</td>
<td>Rachel Wolf</td>
<td><a href="mailto:TitleIX-EFC@dcccd.edu">TitleIX-EFC@dcccd.edu</a></td>
<td>972-860-7358</td>
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<tr>
<td>El Centro</td>
<td>Shanee’ Moore</td>
<td><a href="mailto:TitleIX-ECC@dcccd.edu">TitleIX-ECC@dcccd.edu</a></td>
<td>214-860-2138</td>
</tr>
<tr>
<td>Mountain View</td>
<td>Regina Garner</td>
<td><a href="mailto:TitleIX-MVC@dcccd.edu">TitleIX-MVC@dcccd.edu</a></td>
<td>214-860-8561</td>
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<tr>
<td>North Lake</td>
<td>Rosemary Meredith</td>
<td><a href="mailto:TitleIX-NLC@dcccd.edu">TitleIX-NLC@dcccd.edu</a></td>
<td>972-860-3992</td>
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<tr>
<td>Richland</td>
<td>Bill Dial</td>
<td><a href="mailto:TitleIX-RLC@dcccd.edu">TitleIX-RLC@dcccd.edu</a></td>
<td>972-238-6386</td>
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<tr>
<td>Dallas Colleges Online</td>
<td>Le’Kendra Higgs</td>
<td><a href="mailto:TitleIX-LEC@dcccd.edu">TitleIX-LEC@dcccd.edu</a></td>
<td>972-669-6672</td>
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### District Title IX Coordinator

Office of Institutional Equity
LaShawn Grant
TitleIX-District@dcccd.edu
214-378-1633

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**Academic Dishonesty:**

Students that caught plagiarizing an assignment will be subject to an "F" in the course and possible expulsion from the college.

> Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at: [https://www.mountainviewcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx](https://www.mountainviewcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx).

**Institution Policies:**

Visit [http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf](http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf) for a complete list of institutional policies (Stop Before You Drop; Withdrawal Policy; Repeating a Course; Financial Aid; Academic Dishonesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.).

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**All your homework is due Wednesday, December 11th, by midnight.**
The following is a suggested schedule for you to be ready to take your Tests, and practice Tests on time. You can do one or five sections per day, depending on your own pace.

Course Calendar

**MATH–1325–68440**

Online

Mr. Ranjbaran

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<td>Section: 10.2, and 10.3</td>
<td>Section: 10.4</td>
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<td>Section: 10.7</td>
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<td>November 4, 2019</td>
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<td>November 6, 2019</td>
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<td>Practice Test # 3 (Chapters 12, and 13) Is Available. Anywhere with computer, and internet access</td>
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<td>Preparing For your Practice Test, and Test Assignments</td>
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<td>All Homework assignments are due today</td>
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<td>Final Grade Will be Posted on econnect by Midnight.</td>
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