Course Syllabus
Calculus for Business & Social Sciences - MATH 1325
Spring 2018

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This course syllabus is intended as a set of guidelines for MATH 1325. Both North Lake 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.

**Instructor Information**

**Instructor:** Jerry Mayfield  
**Email:** jmayfield@dcccd.edu

**Course Information**

**Course title:** MATH 1325 73021  
**Credit hours:** 3 credit hours  
**Class meeting time:** 8:00 AM to 9:20 PM TR  
**Class location:** P 316

**Course description:** This course includes limits, differential calculus, integral calculus, and appropriate applications. This course is cross-listed as Math 1425. The student may register for either Math 1425 or Math 1325, but may only receive credit for one.

**Course prerequisites:** Math 1324, Math 1314 or Math 1414
Required or Recommended Textbooks and Materials
1) The required textbook for the course is College Mathematics for Business Economics, Life Sciences and Social Sciences, 12th Ed., Barnett, Ziegler, Byleen.

2) The MyLabsPlus access kit.

3) Calculators
You will be allowed to use calculators on all tests. Graphing calculators (such as the TI-83 or TI-84 Plus) are recommended. **Calculators such as the TI 89 & TI 92, which perform algebraic operations, are not allowed.** You may check out a TI-84 calculator for the tests in the testing center.

Technical Support
Connect support website: https://support.pearson.com/getsupport/s/
Technical support for eCampus: 972-669-6402
Technical support for Connect: 1-949-390-2095

Core Curriculum Intellectual Competencies
As developed by the Texas Higher Education Coordinating Board
Program-Level Outcome 1: Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication
   1. Written: Process and produce effective written communication adapted to audience, purpose, and time constraints.
   2. Visual: Effectively interpret visual images or produce effective visual images.

Program-Level Outcome 2: Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Program-Level Outcome 3: Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Specific Course 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. Students will use the definition to calculate the derivative for simple continuous functions.

**Course Outline (Calendar)**
Please see Appendix A attached to the end of this syllabus for a complete and detailed Course Outline (Calendar). Pay careful attention to the listed dates.

**Means of Assessment of Course Learning Outcomes**
Course Learning Outcomes will be assessed by a variety of means.

1. Proctored written exams will be given to assess each Learning Outcome.
2. Homework will be assigned and assessed either using the software component or by the instructor.
3. Observation of student’s collaboration will be used to assess all outcomes.
4. Students will complete projects and learning activities that will address specific course learning outcomes.

**Evaluation Procedures**

**Tests**
Exams will be administered in the class room. Make-up tests will be taken in the Testing Center, Room A425 *(with Instructor approval.* The final exam will be comprehensive and taken in the classroom at the scheduled time (see Final Exam schedule). Calculators are allowed on all exams.

TI-83/84 or similar calculators and all scientific calculators are permitted on all exams. Calculators with computer algebra systems (CAS) such as the TI-93 or TI N-spire are not permitted on any exam. Bathroom breaks will not be allowed during any exam. If you have a medical condition that merits exemption from this policy, contact North Lake College’s Disability Services Office.

If you unable to take the exam by the given deadline, you will be given a zero. **The final exam may be used to replace a low test score, including a zero due to an exam not taken.** If you are absent for more than one exam, you should contact your instructor as soon as possible to discuss your situation.

The due dates for all exams will be given in class and/or posted in eCampus throughout the semester.

**Quizzes**
Quizzes will be given in the first five minutes of class and/or the last five minutes of class. These assignments cannot be “made-up” if the student is absent or late for any reason (excused or unexcused). At the end of the semester, at least 10% of the lowest quiz grades will be dropped.

**Mastery Tests**
Mastery Tests are available on MLP and are useful for determining if a student is ready for the written exam. Students will be given two attempts for each mastery test. Students that complete the mastery tests with a grade of 70% or better by the test deadline can earn up to three (3) bonus points on the corresponding written exam.

**Homework**

Homework is the most important learning tool in a course.
- It reinforces instruction.
- It provides an immediate and personal measure of your competence in the course.
- Always express the answers to stated problems (word problems) in a sentence which identifies what you have determined to be the answer.
  - An important part of mathematical literacy is good communication skills.
  - First, write the problem or the essential facts.
  - Second, present mathematical sentences showing the progression of your ideas.
  - Third, present a conclusion using a complete sentence.
- More details about what is expected on homework assignments and tests can be found in the eCampus classroom.

Each student is required to purchase the online component (called MyLabsPlus) that comes with a new book. The homework assignments must be completed in MyLabsPlus. The access code can be bought in a bundle (with the book) or as a stand-alone item. You can retrieve these resources from the bookstore on campus.

When completing a homework assignment in MyLabsPlus, you are given as many attempts as you need to respond to an item correctly. Once you have responded to an item correctly at least once, you are given credit for that item. Also, you get immediate feedback for your homework grades.

You may be required to periodically submit written work. When submitting written work, make sure to include your name, course and section number, and name of the assignment (e.g. Quiz #3 section 11.6) on all pages.

**Attendance**

Absences are generally detrimental to one’s performance in a course. You are expected to attend regularly in order that you may increase your chances for a successful semester in this course.

Tardies are strongly discouraged as they are disruptive to the class and thus the students who are on time. However, it is better to come late than not at all, as long as tardiness does not become a habit with one particular individual. If you anticipate a particular problem, please discuss it with me before or after class.

Attendance is necessary to pass this class. Roll will be taken every class period.

**Special Note:** A total 9 absences will result in a grade of F for the course. A total of 3 tardies of more than 20 minutes will be marked as one absence. If a student must leave class early more than three times one absence will be recorded. Your instructor will not determine if an absence is excused or unexcused.
**Grading Scale**
The learning outcomes will be assessed through Individual and Group Work (activities/projects), Homework, and Exams. The final grade will be based on the following:

- MLP Mastery Tests 10%
- In-class Quizzes 10%
- Written Tests (4) 60%
- Final Exam 20%

Total 100%

Your course grade will be determined by the following:

A = 90 – 100%
B = 80 – 89%
C = 70 – 79%
D = 60 – 69%
F = 0 – 59%;

*the instructor will not round more than 0.05 percentage points when calculating final weighted average

**Grade Alternatives**
I – Incomplete
Incomplete Details
- Only given in EXTREME CIRCUMSTANCES
- Requires instructor permission and consent by the Dean of the department.

**Testing Center Information (Room A425)**

**Testing Policy for Mathematics & Science Division:**
- If you need special accommodations you must talk to your instructor and submit a request to the Disability Services Office in person (A414) or by phone at 972-273-3165. Visit [http://www.northlakecollege.edu/services-and-resources/advice-and-assistance/Pages/disability-services.aspx](http://www.northlakecollege.edu/services-and-resources/advice-and-assistance/Pages/disability-services.aspx) for more information.
- You may not bring personal items into the Test Center. This includes bags, cell phones and pagers. Coin-reimbursable (quarter) lockers are available for student use. The testing center is not responsible for lost or stolen items. Please do not share lockers.
- Please show courteous and cooperative behavior while using the services provided by the Testing Center.
- **Do not bring children to the testing center.** You must make arrangements for the care of your children prior to your exam date. The police department will be notified of any unattended children.
- **Do not** take any testing materials with you when you leave the Testing Center. This includes the test, answers, charts, scratch paper. These items will be attached to your test. **To do so constitutes Academic Dishonesty.**

**Academic Dishonesty**
The Dallas County Community District has established [procedures and guidelines](#) to protect the security and integrity of all exams. All incidents of academic dishonesty are
documented and reported to the instructor, the Director of Testing and the Dean of Student Enrollment. **Questions? Please visit the Testing Center (A425) or call 972-273-3160.**

**Testing Center Hours**
The Testing Center normal hours are Mon – Thurs: 8:30 a.m. to 8 p.m. and Fri and Sat: 8:30 a.m. to 3:30 p.m. Important: hours and days may vary due to holidays or other events, please verify the Testing Center will be open before you arrive.

**Testing Center Procedures**
If your instructor requires you to complete an exam in the Testing Center, be sure to have the following information when you request your test.

- Instructor’s name
- Subject and course number (Math 1325)
- Exam number (1st, 2nd, 3rd, etc.)
- Exam deadline (Get this information from your instructor. The testing staff cannot “look up” this information on computers.)

You should also bring the following supplies.

- Pencil & Eraser
- [A Test Request Form](#) initialed by your instructor must be completed before entering the Testing center.
- Only battery operated 4-function calculator is allowed (if permitted by instructor).
- Money for coin-return lockers (quarter). Please do not share lockers.

**Important:** Government- or school-issued photo identification is required & enforced.

**Availability of Course Materials**
Access to coursework on ConnectMath is dependent upon the beginning and ending of the semester. Students may not be able to access their coursework except under instructor supervision and during their enrolled semester.

**Discipline/ Course/ Department/Policies**

**Math Learning Center**
(C211) provides generalized instructional services for students enrolled in North Lake MATH and DMAT courses. Students must show a North Lake College I.D. These include:

- Tutoring in all math courses taught at North Lake College;
- Computers that may be used by students enrolled in courses that have an Internet component such as homework systems (MyLabsPlus, ConnectMath). This lab is restricted to students working on MATH or DMAT courses;
- Graphing calculators and textbooks that are available for use in center;
- Graph Stamps so students can make their own graph paper; and
- A quiet area to study.
The Academic Success Center (ASC)

The Academic Success Center (ASC) is designed to provide assistance to students in the following areas:

- Labs for students enrolled in foreign language, Developmental Reading, and ESOL courses. One-on-one tutoring is available.

- The Writing Center can help students clarify writing tasks, understand instructors’ requirements, develop and organize papers, explore revision options, detect grammar and punctuation errors, and properly use and document sources. Rather than merely editing or "fixing" papers, tutors focus on helping students develop and improve their writing skills. To schedule a tutoring appointment, go to the ASC homepage on the North Lake website, http://bit.ly/NLC-ASCHomepage Find the “Writing Center” heading, click Appointments

- The Online Writing Lab (OWL) allows students to submit papers to our writing tutors electronically and get feedback within 24-48 hours. The OWL can be accessed by going to the ASC homepage on the North Lake website, http://bit.ly/NLC-ASCHomepage Find “The Online Writing Lab” heading, click “SUBMIT PAPER HERE!”

For more information, come by A-332 or call 972-273-3089.

Cell Phone Use
The use of cell phones or other similar devices is prohibited during class time. You are expected to turn OFF and put away all such devices BEFORE entering the classroom. Students caught with a cell phone in their possession while taking a test will be given a zero (0) for that test and may face disciplinary action.

Disruptive Behavior
Distractive talking will not be tolerated. A warning will be given and if not heeded, the student will be asked to leave.

Institutional Policies

Financial Aid Certification of Attendance
You must attend and participate in your on-campus or online course(s) in order to receive federal financial aid. Your instructor is required by law to validate your attendance in your on-campus or online course in order for you to receive financial aid. You must participate in an academic related activity pertaining to the course such as but not limited to the following examples:

- initiating contact with your instructor to ask a question about the academic subject studied in the course;
- submitting an academic assignment;
- taking an exam;
- completing an interactive tutorial;

For Math 1325 lecture courses: To be certified as attending, a student must complete all of first 12 days of assignments earning at least a score of 70%.
**Academic Dishonesty**
The Student Code of Conduct prohibits academic dishonesty and prescribes penalties for violations. According to this code, which is printed in the college catalog, "academic dishonesty", includes (but is not limited to) cheating, fabrication, facilitating academic dishonesty, plagiarism, and “collusion”. The Vice-President of Academic & Student Affairs may initiate disciplinary proceedings against a student accused of academic dishonesty. Academic dishonesty includes, but is not limited to, cheating on a test, plagiarism and collusion.

1) Cheating on a test includes:
   a) Copying from another student’s test paper;
   b) Using, during a test, materials not authorized by the person giving the test;
   c) Collaborating with another student during a test without permission to do so;
   d) Knowingly using, buying, selling, stealing, transporting, or soliciting in whole or part the contents of an un-administered test;
   e) Substituting for another student, or permitting another student to substitute for you to take a test;
   f) Bribing another person to obtain an un-administered test or information about an administered test.

2) “Plagiarism” means the appropriation of another’s work (ideas and/or words) and the unacknowledged incorporation of that work in one’s written work offered for credit. Quotes not identified as quotes constitute a form of plagiarism even if the borrowed ideas are documented.

3) “Collusion” means an unauthorized collaboration with another person in preparing written work offered for credit.

Academic dishonesty may result in the following sanctions, including, but not limited to:
   1. A grade of zero or a lowered grade on the assignment or course.
   2. A reprimand.
   3. Suspension from the college.

**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](http://www.dcccd.edu/titleIX).

North Lake College Title IX Coordinator: Rosemary Meredith (acting),
TitleIX-NLC@dcccd.edu, 972-860-3992

District Title IX Coordinator: Office of Institutional Equity, LaShawn Grant,
TitleIX-District@dcccd.edu, 214-378-1633

**Notification of Absence Due to Religious Holy Day(s)**

Students who will be absent from class for the observance of a religious holiday must notify the instructor in advance. Please refer to the Student Obligations section of the college catalog for more explanation. You are required to complete any assignments or take any examinations missed as a result of the absence within the time frame specified by your instructor.

**Requirements Of The Americans With Disabilities Act**

North Lake College provides academic accommodations to students with disabilities, as defined under ADA law. It is the student's choice and responsibility to initiate any request for accommodations. If you are a student with a disability who requires such ADA accommodations, please contact North Lake College's Disability Services Office in person (A414) or by phone at 972-273-3165. For further information, go online to: [http://www.northlakecollege.edu/resources/disability.html](http://www.northlakecollege.edu/resources/disability.html)

**Drop Policy**

If you are unable to complete this course, you must officially withdraw by **Thursday, April 12th, 2018**. Withdrawing is a formal procedure which you must initiate; your instructor cannot do it for you. 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).

**Administrative Withdrawal**

Students with valid extenuating circumstances may be eligible for an administrative withdrawal by the Dean of the Division in which the course or courses are taught. An administrative withdrawal will not be awarded to students who simply fail to withdraw prior to the last day to receive a “W.” The request for an administrative withdrawal must be made in writing to the Dean of the Division with any supporting documentation attached. This must occur before the last official day of the semester.

**Financial Aid Statement**

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate are also subject to this policy. To apply for financial aid in the DCCCD, students must complete FAFSA (Free Application for Federal Student Aid) on the web at: [http://www.fafsa.ed.gov](http://www.fafsa.ed.gov)

**Stop Before You Drop**

**DO NOT DROP UNTIL YOU SPEAK WITH YOUR INSTRUCTOR.**
For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops

Counseling Services
Counseling services for personal issues are provided to all students currently enrolled at North Lake College. These services are provided by licensed professionals who are bound by confidentiality (within ethical parameters) at no charge. With the assistance of a counselor, students are able to identify, understand, resolve issues and develop appropriate skills. To make an appointment call 972-273-3333 or visit A 430.

The Academic Skills Center (ACS)
The Academic Skills Center (ASC) is designed to provide assistance to students in the following areas:

- Labs for students enrolled in foreign language, Developmental Reading, and ESOL courses. One-on-one tutoring is available.
- The Writing Center can help students clarify writing tasks, understand instructors’ requirements, develop and organize papers, explore revision options, detect grammar and punctuation errors, and properly use and document sources. Rather than merely editing or “fixing” papers, tutors focus on helping students develop and improve their writing skills.
- The Online Writing Lab (OWL) allows students to submit papers to our writing tutors electronically and get feedback within 24-72 hours. The OWL can be accessed through eCampus. After logging on to eCampus, click on the Community Tab at the top. Type “Owl” in the search field and click “Go.” Next, click on the double drop-down arrows next to “NLC-OWL2,” and then click on “Enroll.” Once enrolled, students can receive services from the OWL. For more information or to schedule a tutoring appointment, come by A-332 or call 972-273-3089.

TSI Information
TSI (Texas Success Initiative) is the state required assessment program that has replaced TASP. The purpose of TSI is to insure students have the skills to be ready for college level coursework. Dallas County Community College District is allowing students to decide when they will take their developmental coursework. Demonstrated proficiency in skills through completion of DMAT 0093 or a passing score on an assessment instrument is required to move to college level math classes. Students must earn an “A”, “B”, or “C” in their developmental class in order to move to the next developmental level or to a college level class.

Effective for Fall Semester 2005, the Dallas County Community Colleges will charge a higher tuition rate to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in higher tuition to be charged. Developmental Studies and
some other courses will not be charged a higher tuition rate. Third attempts include
courses taken at any of the Dallas County Community Colleges since the Fall 2002
semester.

Enrollment in developmental courses is subject to other limitations. Students may enroll in
a maximum of 27 hours of developmental courses.
For more information go to the DCCCD web site and click on “Paying for College” and
then “Third Course Attempt.”
TSI completion of all areas (reading, math, and writing) is required before being awarded a
degree. Based on the first testing score, some students may need to re-test in order to
complete TSI requirements.

**Food and Drink in the Classroom**
The college policy restricts food and drink in the classroom.
### Math 1325 Course Calendar

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<td>Syllabus – course policies</td>
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<td>10-1 Introduction to Limits</td>
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<td></td>
<td>10-2 Infinite Limits and Limits at Infinity</td>
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<td>2</td>
<td>10-3 Continuity</td>
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<td></td>
<td>10-4 The Derivative</td>
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<td>3</td>
<td>10-5: Basic Differentiation Properties</td>
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<td>10-6: Differentials</td>
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<td>5</td>
<td>10-7: Marginal Analysis in Business and Economics</td>
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<td>6</td>
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<td>7</td>
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<td></td>
<td>11-2: Derivatives of Exponential and Logarithmic Functions</td>
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<td>11-3: Derivatives of Products and Quotients</td>
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<td>11-4: The Chain Rule</td>
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<td>11-5: Implicit Differentiation</td>
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<td>11-7: Elasticity of Demand</td>
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<td><strong>Major Quiz 1 &amp; Review for Test 2</strong></td>
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<td>13</td>
<td><strong>Chapter 11 Test 2 – Taken in Class</strong></td>
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<td>14</td>
<td>12-1: First Derivatives and Graphs</td>
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<td>12-2: Second Derivatives and Graphs</td>
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<td>16</td>
<td>12-3: L'Hôpital's Rule</td>
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<td>12-4: Curve Sketching Techniques</td>
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<td><strong>12-5: Absolute Maxima and Minima</strong></td>
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<td></td>
<td><strong>12-6: Optimization</strong></td>
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<td><strong>Major Quiz 2 &amp; Review for Test 3</strong></td>
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<td>19</td>
<td><strong>Chapter 12 Test 3 – Taken in Class</strong></td>
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<td>20</td>
<td>13-1: Antiderivatives and Indefinite Integrals</td>
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<td></td>
<td>13-2: Integration by Substitution</td>
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<td>21</td>
<td>13-3: Differential Equations; Growth and Decay</td>
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<td>Day 22</td>
<td>13-4: The Definite Integral</td>
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<td>Day 23</td>
<td>13-5: The Fundamental Theorem of Calculus</td>
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<td>Day 24</td>
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<td>Day 25</td>
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| Day 26 | 14-1: Area Between Curves  
14-2: Applications in Business and Economics |
| Day 27 | Major Quiz 4 |
| Day 28 | Review for Final |
| Day 29 | Review for Final |
| Day 30 | Final Exam |