STEM Division

MATH 2413-43360, 4 Credit Hours
Calculus 1 Mathematics, Lakeview Centennial Dual Credit

Spring, 2015

Room 1227

Instructor:
Ms. Davis

Contact Information:
Office: Room 1227
Office Hours: Mon/Wed/Fri 2:35-3:15pm, Tues/Thurs 2:35-3:45, & by appt.
Phone: 972-240-3740
Email Address: addavi@garlandisd.net

Course Description:
This course is a study of limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas. (4 Lec.)

Prerequisite: MATH 2412 or equivalent.

Textbook and Other Course Materials:
- MyMathLab: MyMathLab access code is REQUIRED. An ebook with interactive animations is included with your MyMathLab account. Microsoft Windows 7 and 8 users should use one of the following browsers with MyMathLab courses-- Chrome, Firefox or Internet Explorer 10 and 9. For other system requirements go to http://www.pearsonmylabandmastering.com/northamerica/system-requirements/
- Calculator: A graphing calculator is required (e.g. TI-83 plus or TI-84 plus)

Student Learning Outcomes:
After completing this course, the student should be able to:
1. Develop solutions for tangent and area problems using the concepts of limits, derivatives and integrals.
2. Draw graphs of algebraic and transcendental functions considering limits, continuity, and differentiability at a point.
3. Determine whether a function is continuous and/or differentiable at a point using limits.
4. Use differentiation rules to differentiate algebraic and transcendental functions.
5. Identify appropriate calculus concepts and techniques to provide mathematical models of real-world situations and determine solutions to applied problems.
6. Evaluate definite integrals using the Fundamental Theorem of Calculus.
7. Articulate the relationship between derivatives and integrals using the Fundamental Theorem of Calculus.

Grading Policy (6 weeks/cycle basis):

40% Tests
25% Quizzes
15% In-Class Assignments
15% Homework
5% Bell Ringers

Grading Rationale:

90-100 percent = A
80-89 percent = B
70-79 percent = C
below 69 percent = F

Late Work
You will lose 10% on late homework assignments. There will be deadlines to submitting late work. If you complete homework late or decide to improve your score before the deadline, you MUST turn in a print out of your MyMathLab grade (like we did for the binder check in the Fall).

Final Examination:
A comprehensive final examination will be administered in all classes.

Music Video Project:
A comprehensive group project will encompass the entire semester. In groups of 3-5, you will create a music video about a chosen topic we discuss this semester. There are deadlines for various parts of your project, culminating in the video itself at the end of May. The deadlines are listed in your calendars and below. Please note that this project is worth 7 grades: 1 test grade and 6 homework/class work grades. Further information (including rubrics) will be provided before Spring Break.

<table>
<thead>
<tr>
<th>Due Date</th>
<th>Project Part</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 27</td>
<td>Group member list (typed with a school appropriate group name)</td>
<td>1 HW</td>
</tr>
<tr>
<td>March 31</td>
<td>Song selection (typed with all group members listed)</td>
<td>1 HW</td>
</tr>
<tr>
<td>April 21</td>
<td>Topic selection (typed with all group members listed)</td>
<td>1 HW</td>
</tr>
<tr>
<td>May 12</td>
<td>Lyrics due (official lyrics you will be singing in video, typed with all group members listed)</td>
<td>1 HW</td>
</tr>
<tr>
<td>May 20</td>
<td>Video Presentation</td>
<td>1 Test, 1 HW, 1 Classwork</td>
</tr>
</tbody>
</table>

Policy on Missed Tests and Assignments:
It is the student’s responsibility for any work missed for an absence (i.e. UIL, field trips, illness, etc). If you are not in class, you WILL miss notes and/or an assignment – plan accordingly
Attendance Policy:
You are expected to regularly attend all classes in which you are enrolled. Students have the responsibility to attend class and to consult with the instructor when an absence occurs.

The GISD Attendance Policy will also be observed.

If a student is unable to complete a course (or courses) in which he/she is registered, it is the responsibility of the student to withdraw from the course by the appropriate date. (The date is published in the academic calendar each year and in each semester’s class schedule). If a student does not withdraw, he/she will receive a performance grade, usually a grade of “F”.

Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 TX Educ. Code.

Obtaining Final Course Grades Using eConnect:
Final grade reports are no longer mailed. Convenient access is available online. Use your student identification number when you log into eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Students Advising Report, which is available in the Admissions Office.

Drop Date:
Last date to drop with a grade of “W” is 4-16-15

Drop Policy:
To drop a class or withdraw from the college, students must follow the prescribed procedure. It is the student’s responsibility to drop or withdraw. Failure to do so will result in receiving a performance grade, usually grade of “F”. No drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a “W” (Withdraw) in each class dropped. The deadline for receiving a “W” is indicated on the academic calendar and the current class schedule. If you are unable to complete this course, you must withdraw from it by 4-16-15. For more information, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C 119.)

STOP BEFORE YOU DROP
Six Drop Rule: 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.

Financial Aid:
If you are receiving Financial Aid grants or loans, you must begin attendance in all classes to be certified as attending class. In a Distance Learning Class, you must show participation in the class prior to the certification date by either e-mailing your instructor or logging on to eCampus. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds. Failure to contact the instructor will result in your name being submitted to the Financial Aid Office as a “non-attendee”. Student who fail to attend or participate after the drop date are also subject to this policy.

Repeating This Course:
Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition 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 additional 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. See Third Attempt to Enroll in a Course rules on the DCCCD website.

Students With Learning, Mental and Physical Disabilities:
Students requesting accommodation due to the presence of a disability must identify themselves in a timely fashion and demonstrate/document the need for accommodations through the Disability Services Office (DSO). For information regarding the rights and responsibilities of students with disabilities, contact DSO at (972) 860-8348 voice/TDD or email efcds0@dcccd.edu.

Student Email:
Legal privacy issues prevent your instructor from discussing your work or your grades on commercial e-mail accounts. If you wish to send your papers as attachments to an e-mail (and the instructor permits it), or if you have a question about your grade, you must open a student e-mail account. You may set up your account by clicking on this link. The account is free.

Standard of Conduct/Classroom Etiquette:
No food, drinks or tobacco products are allowed in Eastfield College classrooms. However; if your class is in a non-lab classroom your instructor may allow for food or drink.
- Listen when others speak.
- Be prepared and ready to contribute.
- Be responsible for your own behavior.
- School rules will be enforced.
- LCHS student expectations followed.
- Cell phones are not allowed in the building during the school day and will be enforced according to campus/district guidelines.

Children on Campus:
The institution strives to protect an environment most conducive to teaching and learning for all enrolled students. Children who are taking part in organized scheduled activities or who are enrolled in specific classes are welcomed. Minor children, however, should not be brought to the institution unless closely supervised by their parent. Minor children should not be brought into classrooms, laboratories or other facilities of the college. This practice is disruptive to the learning process. In the case of an emergency where the student-parent has no alternative but to bring the child to campus, classroom faculty or the administrative heads of other units have full discretion as to whether a child may be allowed to quietly stay in the location. These individuals may require that children be removed by the student-parent from the setting if, in their opinion, the presence of the child is deemed to be disruptive to the learning process. For reasons of security and child welfare the institution will not permit unattended children to be left anywhere on the premises. Parents who have problems with childcare should visit the Counseling and/or Advisement Center to receive referrals to childcare services in the area.

CODE OF STUDENT CONDUCT: Web site address: http://www1.dcccd.edu/cat0506/ss/code.cfm

Responsibility
Each student shall be charged with notice and knowledge of the contents and provisions of the District’s policies, procedures, and regulations concerning student conduct. All students shall obey the law, show respect for property constituted authority, and observe correct standards of conduct. In addition to activities prohibited by law, the following types of behavior shall be prohibited.

Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by college policies. Scholastic dishonesty shall include, but not limited to, cheating on a test, plagiarism, and collusion.
“Cheating on a test” shall include:

- Copying from another student’s test paper
- Using test materials not authorized by the person administering the test.
- All forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion.
- Collaborating with or seeking aid from another student during a test without permission from the test administrator.
- Knowingly using, buying, selling, stealing, or soliciting, in whole or in part, the contents of an unadministered test.
- The unauthorized transporting or removal, in whole or in part, of the contents of the unadministered test.
- Substituting for another student, or permitting another student to substitute for one’s self, to take a test.
- Bribing another person to obtain an unadministered test or information about an unadministered test.

“Plagiarism” shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work.

“Collusion” shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements.

Cell Phones

Cell phones and other electronic devices that can send/receive signal MUST be turned in before any test/exam in this course. IF you are caught with your device, whether it is turned on or not, during a test (whether you have turned your test in or not), I will assume that you are cheating and you will receive an automatic 0 for that test.

Students should be aware of disciplinary actions for all forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion. Your College Catalog and the DCCCD Catalog contain the entire Student Code of Conduct. In this course, you will receive a grade of “0” on that particular assignment or test if you are guilty of cheating on assignments, tests, or plagiarism. Please do not put yourself in a situation that would result in such action. Academic dishonesty is a serious offense in college.

Campus Police:

In addition to providing general law enforcement on campus, the campus police respond to all emergencies. In any emergency situation, you can get immediate help by any of the following methods:

- call 911 on any campus extension
- use any red phone in the hallways, or any "blue light" call box in the parking lots
- call 972-860-4290 from any off campus extension

Sexual Harassment:

Eastfield College has a zero tolerance policy on sexual harassment. All students shall report complaints of sexual harassment informally to the college Human Resources Director or formally to the Vice Chancellor of Educational Affairs.

DCCCD Emergency Operation Procedures: Click on this link for further information.

Emergency & Inclement Weather Procedures:

In case of emergency (which may include power or air conditioning outages, fires, etc.) or inclement weather conditions, Eastfield students should listen to KEOM-FM Radio Station (88.5) as the primary media source. In partnership with the Mesquite Independent School District, Eastfield College Administration will notify KEOM immediately after a decision is made to cancel classes on any given day of inclement weather or for emergency purposes. Students may also monitor
other local radio and television stations. The earliest an announcement may be broadcast on KEOM Radio is 6 a.m. Students may also refer to the Eastfield College website for the Inclement Weather announcement under News/Features.

**Family Educational Right and Privacy Act of 1974 (FERPA):**
In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as "directory information" to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.

**ADDITIONAL RESOURCES:**
The Math Spot provides tutoring in Mathematics and Developmental Mathematics. Students are encouraged to take advantage of this service for additional help in their course work. The Math Spot is located in room C-201, and the phone number is 972-860-7062. Visit the link above for more information on tutors, hours of operation and policies.

**COURSE OUTLINE:**

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<td>2.1 – 2.7</td>
<td>Limits and Continuity</td>
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<td>Chapter 3</td>
<td>3.1 – 3.8</td>
<td>Derivatives</td>
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<tr>
<td>Chapter 4</td>
<td>4.1- 4.8</td>
<td>Applications of the Derivative</td>
</tr>
<tr>
<td>Chapter 5</td>
<td>5.1 – 5.5</td>
<td>Integration</td>
</tr>
<tr>
<td>Chapter 7</td>
<td>7.1 – 7.6</td>
<td>Logarithmic &amp; Exponential Functions, Inverse Trigonometric Functions</td>
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**SYLLABUS REVISION:**
The guideline in this syllabus may be changed, deleted, or amended any time by the instructor. The attached course outline is intended as an aid in helping you know your responsibilities for the semester. It is possible that some changes in the course outline or class policies will be made during the semester. Any changes that are made to the class policies or course outline will be announced in class.

Revised: 01/01/2015