Calculus III
MATH. 2415. 63400
Spring, 2016
1/20/16 – 5/12/16

Professor: Mohammad S. Zouyousefain, Ph.D.
Email: mzouyousefain@dcccd.edu (Please allow at least 24 working hours for response)
Office Phone Number: 214-860-8832, Emails are preferred
Office Number: W194A
Office Hours: Online, Will be posted on office door
Meeting Days & Time: Online
Room Number: Online
Credit Hours: 4 Semester Hours

The following is the Dean’s Office information, please contact your instructor first.
Science, Technology, Engineering, & Mathematics (STEM)
Office Hours: M – F 8:00 am – 5:00 pm
Office Phone: 214-860-8760
Office Number: W147

Course Description: This course is a study of advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral including Green's Theorem, the Divergence Theorem, and Stokes' Theorem.
Course Prerequisites: MATH 2414 or equivalent.

Course Materials/Supplies Needed
MYMATHLAB IS REQUIRED BUT HARD COPY OF THE BOOK IS OPTIONAL
OPTIONAL: STUDENT SOLUTION MANUAL, (ISBN# 9780321884107)
TI – 83 OR TI-83 PLUS CALCULATOR REQUIRED
TI-86 CALCULATOR or any other graphing utility IS ACCEPTABLE

Student Learning Outcomes
After successful completion of this course the student should be able to solve problems involving:
1. vectors in the plane
2. parametric equations
3. vectors in three-dimensional space
4. three-dimensional coordinate systems
5. functions of several variables
6. directional derivatives
7. partial differentiation
8. multiple integration
9. applications

Course Outline:
Chapter 12  Vectors and the Geometry of Space
Chapter 13  Vector-Valued Functions and Motion in Space
Chapter 14  Partial Derivatives
Chapter 15  Multiple Integrals
Chapter 16  Integration in Vector Fields

Evaluation Procedures:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Three Tests</td>
<td>45%</td>
</tr>
<tr>
<td>Class Participation/Quizzes</td>
<td>20% (no class participation is required for online classes)</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Final</td>
<td>15%</td>
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</tbody>
</table>

100%

Instructor Attendance Policy: (Does not apply to online classes)
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.

Grading Scale:

90 – 100   A
80 – 89    B
70 – 79    C
50 – 69    D
0 - 49     F

Late Work Policy: Late work will not be accepted.

Makeup Exam Policy: No makeup test or quiz will be given. However, under extenuating circumstances, with proper documentation (Note from hospital, doctor, etc.) a maximum of one makeup test or quiz may be arranged.

Certification Procedures: (For Online Courses)

I need to certify your class before the certification day. You need to show attendance by signing up to MyMathLab/Coursecompass when the class starts. If you are in my online or hybrid
class, MyMathLab/Coursecompass is the basis for your attendance. (For Lecture classes, you need to sign the attendance sheet when we meet in class).

Please go to www.dcccd.edu, click on the link eCampus, sign up if you are new to eCampus then log in, click on courses, then to this course. On your left click on "what you need to do first" to get the course ID for MyMathLab, and get started. If for some reasons, you have not been able to buy MyMathLab and have not sign in yet, please let me know what your plans are, so that I can certify you as attended.

The withdraw date for this class is April 14, 2016. Please refer to DCCCD 2015-2016 Academic Calendar for updates.

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://www1.dcccd.edu/catalog/ss/code.cfm.

Institution Policies: Please visit 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.).

Course Calendar/ Due dates are posted on MyMAthLab.