Instructor: Dr. Anahit Galstyan
Office: MAGC 3.714
Phone: 665-3556; E-mail: anahit.galstyan@utrgv.edu

Office hours: Tuesday, Thursday 3:05pm – 4:05 pm, Friday 11.45am-12.45pm or by appointment

Meeting time and place: Tuesday, Thursday - 10.50am -12.05pm at Liberal Arts Bldg. South 185, Friday 10.50am-11.40 am MAGC 1.208

Textbook: “Essential Calculus: Early Transcendentals”, by James Stewart, 2nd edition. The e-book is a part of WebAssign, which will be required for HW. The discounted access code for multi term access can be purchased at http://www.cengagebrain.com/course/2045643

Course Description: Topics include calculus of several variables, partial derivatives, multiple integrals, and vector calculus including the Divergence Theorem and Stoke's Theorem. (Chapters 10, 11, 12, 13)

Prerequisite: MATH 2414 with a grade of C or better

Homework: The online homework will be assigned using WebAssign. Each homework assignment will consist of approximately 10-15 problems. The quizzes and exams are based on the homework problems. It is strongly recommended that students work all those problems.

Quizzes: The quizzes are based on the homework problems

Examinations: There will be three one-hour exams and a comprehensive final exam. All students are expected to take the examinations at the announced time. On all problems, you must show your work. Write clearly and show all your work; a correct answer alone may not receive any credit.

Final Exam: The comprehensive common final exam is on Tuesday, December 12, 10.15am-12.00pm in the regular classroom.

Grading policy: Three one-hour exams: 60% (=3x20%); Comprehensive final 20%; Homeworks and Quizzes 20%.

Calculators: The use of graphing/programmable calculators or computers is recommended but not required. On some tests graphing/programmable calculators will be prohibited.

Grade Distribution:

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Letter</th>
</tr>
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<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
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Tutoring: There are all kinds of math tutoring available on campus. Math Lab I, II (MAGC 1.106, MAGC 1.308) and the Math Learning Center in the LEAC Building room 114.

Attendance: Attendance is mandatory. You are required to come to all class-meetings; please come on time. Please turn off your cell-phones during the class. Students are expected to attend all scheduled classes and may be dropped from the course for excessive
absences. UTRGV’s attendance policy excuses students from attending class if they are participating in officially sponsored university activities, such as athletics; for observance of religious holy days; or for military service. Students should contact the instructor in advance of the excused absence and arrange to make up missed work or examinations.

**Students with disabilities:**

Students with a documented disability (physical, psychological, learning, or other disability which affects academic performance) who would like to receive academic accommodations should contact Student Accessibility Services (SAS) as soon as possible to schedule an appointment to initiate services. Accommodations can be arranged through SAS at any time, but are not retroactive. Students who suffer a broken bone, severe injury or undergo surgery during the semester are eligible for temporary services. **Brownsville Campus:** Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at ability@utrgv.edu. **Edinburg Campus:** Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at ability@utrgv.edu.

**Drop Policy**

According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.

**Makeup Policy**

In the case of illness and in rare cases of other conflicts, students with documented excuses may request to take a makeup exam after scheduled exam. In all cases, makeup must be requested before the regularly scheduled exam.

**Calendar of Activities**

Some important dates for Fall 2017 include:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>August 28</td>
<td>First day of classes</td>
</tr>
<tr>
<td>August 31</td>
<td>Last day to add a course or register for fall 2017</td>
</tr>
<tr>
<td>September 4</td>
<td>Labor Day – NO classes</td>
</tr>
<tr>
<td><strong>November 15</strong></td>
<td><strong>Last day to drop a course; will count toward the 6-drop rule</strong></td>
</tr>
<tr>
<td>November 23 – 26</td>
<td>Thanksgiving Holiday – NO classes</td>
</tr>
<tr>
<td>December 6</td>
<td>Last day of classes</td>
</tr>
<tr>
<td><strong>December 7</strong></td>
<td>Study Day – NO class</td>
</tr>
<tr>
<td>December 8-14</td>
<td>Fall 2017 Final Exams</td>
</tr>
<tr>
<td>December 15-16</td>
<td>Commencement Ceremonies</td>
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**Electronic Communication Policy:**

The university policy requires all electronic communication between the University and students be conducted through the official University supplied systems. Therefore, please use your UTRGV assigned e-mail for all future correspondence with UTRGV faculty and staff.

**Mandatory Course Evaluations**

**Mandatory Course Evaluations Period** (November 15 – December 6). Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (http://my.utrgv.edu); you will be contacted through email with further instructions. **Students who complete their evaluations will have priority access to their grades.** Online evaluations will be available Nov. 15 – Dec. 6, 2017.
Scholastic Integrity

As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism, and collusion; submission for credit of any work or materials that are attributable in whole or in part to another person; taking an examination for another person; any act designed to give unfair advantage to a student; or the attempt to commit such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE:

In accordance with UT System regulations, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free from sexual misconduct and discrimination.

Course Student Learning Outcomes:

After completing this course students will
1. Understand vectors in Euclidean N-space, operations involving vectors, and their application to applied problems;
2. Understand vector functions, operations with them (including differentiation and integration), and their application to motion in space;
3. Understand real functions of several variables, operations with them (including differentiation and integration), optimization of multivariable functions, and their application to physical problems;
4. Compute multiple integrals in Cartesian, polar, cylindrical, and spherical coordinates, and apply multiple integrals to physical problems;
5. Understand line and surface integrals, master the theorems of Green, Stokes, and Gauss (Divergence), and the Fundamental Theorem of Line integrals, and apply line and surface integrals to physical problems;
6. Apply computer and graphing calculator technology to gain insight into the topics discussed in class and to aid in performing computations.

Major SLO’s (Student Learning Outcomes)

Math w/o and wi Cer ti fi cat ion SLO’ s:

Students completing the B.S. program in Mathematics will
1. Demonstrate in-depth knowledge of Mathematics, its scope, application, history, problems, methods, and usefulness to mankind both as a science and as an intellectual discipline.
2. Demonstrate a sound conceptual understanding of Mathematics through the construction of mathematically rigorous and logically correct proofs.
3. Identify, formulate, and analyze real world problems with statistical or mathematical techniques.
4. Utilize technology as an effective tool in investigating, understanding, and applying mathematics.
5. Communicate mathematics effectively to mathematical and non–mathematical audiences in oral, written, and multi–media form.
6. Demonstrate an appreciation of and enthusiasm for lifelong scientific inquiry, learning, and creativity.