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

Office hours: TR 4.30 pm-5.30 pm or by appointment

Meeting time and place  
TR 3. 05 pm – 4.20 pm,  
F 3.05pm-3.55pm at EMAGC 1.324

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 is http://www.cengagebrain.com/course/3451955

Course Description  
Topics include derivatives and integrals of transcendental functions, methods of integration, parameterized curves, integration in polar coordinates, and infinite sequences and series. (Chapters 6, 7, 8 and 9)

Prerequisite  
MATH 2413 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.

Discussion Sessions:  
On Friday, the section will be divided into 3 smaller groups and students will work on the given worksheets with the guidance of instructor or teaching assistant and submit them at the end of the class.

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 final exam is on Thursday, May 9, 1:15 p.m.-3:00 pm in the regular classroom

Grading policy  
Three one-hour exams: 45% (=3x15%) ; Discussion Sessions 15%; 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:  

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<th>Grade Distribution</th>
<th>A</th>
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<td>90-100%</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.

Calendar of Activities
Some important dates for Spring 2019 include:

- **January 14** First day of class for full semester
- **January 17** Last day to add a class for spring 2017 semester
- **January 21** Martin Luther King Jr. Day - no classes
- **January 30** Census Day (last day to drop without it appearing on the transcript)
- **March 11 – 16** Spring Break, no classes
- **April 10** Last day to drop (DR grade) a class or withdraw (W grade)
- **April 19 – 20** Easter holiday, no classes
- **May 1** Last day of classes for full semester
- **May 2** Study Day, no classes
- **May 3 – 9** Final Exams
- **May 10 - 11** Commencement Ceremonies

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.

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.

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.

Pregnancy, Pregnancy-related, and Parenting Accommodations
Title IX of the Education Amendments of 1972 prohibits sex discrimination, which includes discrimination based on pregnancy, marital status, or parental status. Students seeking accommodations related to pregnancy, pregnancy-related condition, or parenting (reasonably immediate postpartum period) are encouraged to contact Student Accessibility Services for additional information and to request accommodations.

Student Accessibility 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.
Mandatory Course Evaluations Period April 10 – May 1). Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (http://my.utrgv.edu); students 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 April 10 – May 1, 2019.

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 (including self-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 that is free from sexual misconduct and discrimination.

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.

Student Services

Students who demonstrate financial need have a variety of options when it comes to paying for college costs, such as scholarships, grants, loans and work-study. Students should visit the Students Services Center (U Central) for additional information. U Central is located in BMAIN 1.100 (Brownsville) or ESSBL 1.145 (Edinburg) or can be reached by email (ucentral@utrgv.edu) or telephone: (888) 882-4026. In addition to financial aid, U Central can assist students with registration and admissions.

Students seeking academic help in their studies can use university resources in addition to an instructor’s office hours. University Resources include the Learning Center, Writing Center, Advising Center and Career Center. The centers provide services such as tutoring, writing help, critical thinking, study skills, degree planning, and student employment. Locations are:

- Learning center: BSTUN 2.10 (Brownsville) or ELCTR 100 (Edinburg)
- Writing center: BLIBR 3.206 (Brownsville) or ESTAC 3.119 (Edinburg)
- Advising center: BMAIN 1.400 (Brownsville) or ESWKH 101 (Edinburg)
- Career center: BCRTZ 129 (Brownsville) or ESSBL 2.101 (Edinburg)
Course SLO’s (Student Learning Outcomes)  After completing this course students will
1. Correctly apply the standard methods of integration, including substitution, integration by parts, trigonometric identities, trigonometric substitution, and partial fraction decomposition.
2. Approximate definite integrals using the Riemann sums, trapezoid rule, Simpson’s rule, and series techniques.
3. Properly define and evaluate improper integrals and apply the Comparison Test to determine whether they converge or diverge.
4. Apply integration to compute areas, volumes, work, average values of functions, arc lengths, surface areas, hydrostatic pressures and forces, centers of mass, and moments.
5. Define curves parametrically and in polar coordinates and perform the standard calculus computations on parametric and polar curves, such as derivatives, integrals, areas, arc lengths, and surface areas.
6. Understand the concepts of sequence, series, limits of sequences and series, convergence and divergence of sequences and series, and absolute and conditional convergence of series.

Math w/o Certification 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.