Instructor: Dr. Cristina Villalobos  
Office: EMAGC 3.718  
Office Phone: 956-665-2123  
Email: cristina.villalobos@utrgv.edu  
Office Hours: Tuesday/Thursday 2pm-3pm  
Wednesday 10am-11am or by appointment or via Zoom

Textbook and/or Resource Material  
Journal papers will be provided as well as books from the UTRGV library.

Course Description and Prerequisites  
This course is designed to give students experience in research not normally covered within standard courses.  
Research projects will vary according to student interest and faculty availability. Students will complete a major mathematical research project communicating its results both in oral and written forms to the department faculty and students. Prerequisites: 12 advanced hours of MATH with grades of 'C' or better, and departmental approval.

Learning Objectives/Outcomes for the Course  
After completing this course students will be able to:  
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. Identify, formulate, and analyze real world problems with statistical or mathematical techniques.  
3. Utilize technology as an effective tool in investigating, understanding, and applying mathematics.  
4. Communicate mathematics effectively to mathematical and non–mathematical audiences in oral, written, and multimedia form.

Grading Policies  
Project Preparation & Participation (weekly attendance) 20%  
Project Paper 40%  
Project Presentation 40%

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 email account for all future correspondence with UTRGV faculty and staff.

Major Student Learning Outcomes (SLOs)  
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.
Calendar of Activities

August 26  First day of classes
August 29  Last day to add a course or register for Fall 2019
September 2  Labor Day Holiday – NO classes
November 13  Last day to drop a course; will count toward the 6-drop rule
November 28 - 29  Thanksgiving Holiday – NO classes
December 5  Study Day – NO classes
December 6 - 12  Final Exams
December 13 - 14  Commencement Exercises

UTRGV Policy Statements

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 experience 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 1.107 in the Music and Learning Center building (BMSLC) and can be contacted by phone at (956) 882-7374 or via email at ability@utrgv.edu.

Edinburg Campus: Student Accessibility Services is located in 108 University Center (EUCTR) and can be contacted by phone at (956) 665-7005 or via email at ability@utrgv.edu.

Mandatory Course Evaluation Period
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 on or about:

<table>
<thead>
<tr>
<th>Module</th>
<th>Date Range</th>
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<tbody>
<tr>
<td>Module 1</td>
<td>October 2nd – 8th</td>
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<tr>
<td>Module 2</td>
<td>November 27th – December 3rd</td>
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<tr>
<td>Full Fall Semester</td>
<td>November 14th – December 4th</td>
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Sexual Misconduct and Mandatory Reporting
In accordance with UT System regulations, your instructor is a “Responsible Employee” for reporting purposes under Title IX regulations and so must report to the Office of Institutional Equity & Diversity (oie@utrgv.edu) any instance, occurring during a student’s time in college, of sexual misconduct, which includes sexual assault, stalking, dating violence, domestic violence, and 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, discrimination, and all forms of violence. If students, faculty, or staff would like confidential assistance, or have questions, they can contact OVAVP (Office for Victim Advocacy & Violence Prevention) at 665-8287, 882-8282, or OVAVP@utrgv.edu.
**Scholastic Dishonesty**

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 Student Rights and Responsibilities.

**Course Drops**

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 Advising Center, Career Center, Counseling Center, Learning Center, and Writing Center. The centers provide services such as tutoring, writing help, critical thinking, study skills, degree planning, and student employment. Locations are:

<table>
<thead>
<tr>
<th>Center Name</th>
<th>Brownsville Campus</th>
<th>Edinburg Campus</th>
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<tbody>
<tr>
<td>Advising Center</td>
<td>BMAIN 1.400 (956) 665-7120</td>
<td>ESWKH 101 (956) 665-7120</td>
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<tr>
<td><a href="mailto:AcademicAdvising@utrgv.edu">AcademicAdvising@utrgv.edu</a></td>
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<tr>
<td>Career Center</td>
<td>BCRTZ 129 (956) 882-5627</td>
<td>ESSBL 2.101 (956) 665-2243</td>
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<tr>
<td><a href="mailto:CareerCenter@utrgv.edu">CareerCenter@utrgv.edu</a></td>
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<tr>
<td>Counseling Center</td>
<td>BSTUN 2.10 (956) 882-3897</td>
<td>EUCTR 109 (956) 665-2574</td>
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<td><a href="mailto:Counseling@utrgv.edu">Counseling@utrgv.edu</a></td>
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<tr>
<td>Learning Center</td>
<td>BMSLC 2.118 (956) 882-8208</td>
<td>ELCTR 100 (956) 665-2585</td>
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<tr>
<td><a href="mailto:LearningCenter@utrgv.edu">LearningCenter@utrgv.edu</a></td>
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<tr>
<td>Writing Center</td>
<td>BUBLB 3.206 (956) 882-7065</td>
<td>ESTAC 3.119 (956) 665-2538</td>
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<td><a href="mailto:WC@utrgv.edu">WC@utrgv.edu</a></td>
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**NOTE:** The syllabus is subject to change.