Pre-Calculus MATH 2412-01, Summer II 2019

Classes: mo, tu, we, th, fr 2:00 pm - 4:00 pm (EMAGC 2.210)

Instructor: Dr. Paul-Hermann Zieschang

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Office Hours: mo, we, 1:00 pm - 2:00 pm (MAGC 3.734)


Course Description: Trigonometric functions, applications, graphs, equations, and identities; inverse trigonometric functions; vectors; sequences and series; the Binomial Theorem; conic sections; and parametric and polar equations, etc. See Chapters 5, 6, 7, 8, 9, 11, 12.

Course Objectives: The objective of this course is a preparation for studying Calculus.

Learning Objectives/Outcomes for the Course: After completing this course students will be able to

1. demonstrate an understanding and skill in the use of trigonometric functions, formulas, and fundamental identities;

2. demonstrate knowledge of the exact values of certain trigonometric functions for particular angles in degrees and radians;

3. demonstrate an understanding and to solve right triangle and non right triangle problems using trigonometric functions;

4. to graph and name the graph of a circular function;

5. understand and to solve trigonometric equations using the basic trigonometric identities;

6. demonstrate an understanding of sequences and series, in general, and in particular the geometric sequences and series;

7. demonstrate an understanding of the basic shapes in analytic geometry (in rectangular coordinates and polar coordinates): lines, parabolas, ellipses, hyperbolas, and conics.
Grading Policies: UTRGVs grading policy is to use straight letter grades (A, B, C, D, or F). Four midterms 20% each, final examination: 20%. (No retest opportunities.)

Calendar of Activities: The UTRGV academic calendar can be found at the webpage http://my.utrgv.edu at the bottom of the screen, prior to login.

Other Course Information: The use of electronic devices (texting or internet browsing) is not allowed during classes. Oral participation in class is crucial for the final grade.

UTRGV Policy Statements: The UTRGV disability accommodation, mandatory course evaluation statement and sexual harassment statement are required on all syllabi. Additional policy statements are optional, such as those covering attendance, academic integrity, and course drop policies.

Students with disabilities: If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time. 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 accessibility@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 accessibility@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.

Attendance: Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences. UTRGVs 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.

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 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.