THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course #: Math 5370/ 34029
Course Title: Seminar – Algebraic Structures
Credit Hrs: 3
Term: Summer II, 2015
Course Meetings & Location: MTWRF 4:20 pm - 6:30 pm in BH 130
Prerequisite Courses:
Instructor: Dr. Emil Schwab
Office Location: BH 201
Contact Info: Phone # 747-6758
E-mail address: eschwab@utep.edu
Office Hrs: TBA
Textbook(s), Materials: A textbook is not required.

Course Objectives: This course is designed for graduate students in the Master of Arts in Teaching - Mathematics (MATM) Program to enhance mathematical thinking and inquiry. Students are expected to build a solid understanding of some abstract concepts, principles, theorems and proofs, to develop the ability to think abstractly, and to be able to elaborate rigorous proofs.

Course Contents: Topics include groups, rings and fields (quotients, subobjects, and isomorphisms) with an emphasis on applications to unify, and rigorously justify, results and techniques from high school algebra curriculum, polynomial rings, ring of integers, real and complex numbers as fields.

Exams and Assignments: There will be two exams. Homework will be assign regularly. The homework will not be collected, but will be discussed in class. The exams will include problems from homework.

Grading Policy: Each exam (worth of 100 points) represents 50% of the final grade. The final grade will be determined by the average of the exam’s scores respecting the following grading scale:

A 85-100;  B 70-84;  C 55-69;  D 40-54;  F below 40.

Make-up Policy: Make-ups/retests will be given only under extraordinary circumstances documented by the student and at the discretion of the instructor.
Attendance & Withdrawal: It is expected that everyone attend every class and arrive on time. It is the student’s responsibility to drop the course, the deadline to drop with an automatic W is **July 24**. After the drop deadline the Dean’s Office of the College of Science will not approve any drops (W).


Disability Statement: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at [www.sa.utep.edu/cass](http://www.sa.utep.edu/cass). The student is responsible for presenting to the instructor any CASS accommodation letters and instructions.

Military Statement: If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact the instructor as soon as possible.