Fall 2014 Texas A & M-Commerce
Math 543 – Abstract Algebra I

This is the syllabus for on-line course Math 543, Section 01W for Fall 2014. Please read it carefully. You will be responsible for all information given in the syllabus, and for any modification to it that may be announced during the semester.

Instructor: Dr. Yelin Ou
Office: Binnion Hall 313. Phone: (903) 886-5949
E-mail: Yelin.Ou@tamuc.edu
Office hours: MW: 1:30pm-3:30 pm,
TR: 10:00am- 11:00am, and by appointment.

Class meetings and room: This is an online class.

Text and references: Abstract Algebra, 3rd Edition, by D. Dummit and R. Foote.
Course Description: Groups, Subgroups, quotient Groups and Homomorphisms, Group Actions. Prerequisite: Math 334.

Learning Outcomes: Upon successful completion of this course, the students will be able to:

1. Define, and interpret basic concepts, fundamental properties and the algebraic structures of groups, subgroups, quotient groups, group homomorphisms and group actions.
2. Verify and prove some important theorems in group theory including Lagrange's Theorem, Cayley's Theorem, isomorphism theorems, and the classification of finite groups with small number of elements.
3. Define and explain the basic concepts, properties and examples of subgroups, cyclic groups, symmetric groups, and dihedral groups.
4. Define, explain and analyze basic concepts and properties and examples concerning cosets, normal subgroups, and quotient groups.

Instruction: Students will complete the course and learn the material by participating in guided activities including guided reading, discussing, online searching and writing, practicing and testing.

Attendance: Attendance will be checked and it is your responsibility to sign the daily roll sheet. It is your benefit to attend the class.

Tests: There will be two midterm and a final exams for the course. The tentative schedules for the exams are:
Test 1: Oct. 2, Thursday 4:30pm-5:15pm.

Test 2: Nov. 13, Thursday 4:30pm-5:15pm.

Final exam: The comprehensive final exam is scheduled on **Dec 11, 4:30pm-6:30pm**.

All tests and final exam will be taken face-to-face. You can choose to take tests/final at one of the following places: Commerce BA 244, Metroplex Center Mesquite 131, Navarro College BC322.

No makeup exam will be given unless you have verifiable evidence showing an acceptable reason to have to miss a test and, in that case, you must notify the instructor before the test or in the earliest possible time.

Homework & Quizzes: Homework assignments are attached to this syllabus . You are strongly recommended to work out homework assignments on a regular basis since **No one can learn mathematics without doing it**! The assigned homework will be collected for grading on Sept. 25, Nov. 06, and Dec. 4. Some homework problems or their similar forms will be used as test questions. Pop quizzes are expected from time to time.

Course grades: The course grade consists of

Homework & Quizzes:	15%
Two Tests :	50%
Final exam:	35%.

The letter grades will be assigned using the following scale:

A: 90-100% B: 80-89% C: 70-79% D: 60-69% F: 0-59%

Withdrawal Policy: Concerning the deadlines and consequences of withdrawals please check on: http://web.tamu-commerce.edu/admissions/registrar/academicCalendars/20122013academiccalendar.pdf

Students with Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services/ Gee Library Room 132 . Phone (903) 886-5150 or (903) 886-5835, Fax (903) 468-8148, and Web: StudentDisabilityServices@tamuc.edu

Getting help: A better way to learn math is to keep progress and leave no gaps in one's study. So please get help as soon as you need it. You are welcome to come to my virtual office or use email communication for help.