2014

MATH 105-/01/02/03 Fundamentals of Mathematics

Shelia Doran

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MATH 105 – Fundamentals of Mathematics  
Fall 2014  
MWF  
Section 01  8:00-8:50  
Section 02  9:00-9:50  
Section 03  10:00-10:50  

Instructor: Mrs. Sheila Doran  
Office: 107 Hinkle  
Phone: (513) 745-4244  
e-mail: doran@xavier.edu (Make sure you DO NOT use dorans)  

Office Hours: Monday & Friday 1:00-3:00 pm  
Tuesday 9:00-11:00 am  
Others by Appointment – contact me by phone, email, or in class  


Online Homework Requirement: ALEKS http://www.aleks.com/  
ALEKS contains an online ebook. You do not have to buy a paper textbook if you think you can work with an ebook.  

Calculator: TI-83 or TI-84 (plus/silver edition – any version is okay)  

Course Description  
This course is designed to prepare students for university core level mathematics classes. It includes a review of the properties of and operations with real numbers. Real world problem solving will be used to investigate linear equations and graphs, exponents, polynomial expressions, systems of linear equations, and quadratic equations. The course also provides an introduction to the TI-83/84 graphing calculator. The web-based assessment and learning system, ALEKS, will be used for mastering topics throughout the course.  

Course Student Learning Outcomes  
1. The student will be able to correctly add, subtract, multiply, and divide expressions containing real numbers.  
2. The student will be able to solve problems using linear and quadratic equations.  
3. The student will be able to properly use real number exponents in operations.  
4. The student will be able to correctly add, subtract, multiply, divide, and factor polynomial expressions containing real numbers, variables, and exponents.  
5. The students will be able to solve a system of equations by three different methods.
Grading
Your final grade will consist of 3 tests, 1 quiz/project/homework average, an ALEKS assignment average, and a cumulative final exam. Each will be weighted as follows:

Test #1 14%
Test #2 14%
Test #3 14%
Test #4 14%
Quiz/Project/Homework Average 15%
ALEKS Assignments 14%
Cumulative Final Exam 15%

No extra credit is available. Projects/Homework not turned in on the due date will have points deducted from the score.

I always try to get tests and quizzes graded and back by the next class period. Therefore, if a test or quiz is to be missed for an unavoidable reason, arrangements must be made beforehand to make it up before the next class period.

Grading Scale:
92-100 = A
88-89 = B+
82-87 = B
78-79 = C+
72-77 = C
68-69 = D+
60-67 = D
59 = F
0-59 = F

Class Helpful Hints

Class Preparation
In preparation for each class, read the section for the day (listed on the daily schedule). Work through the examples in the reading and bring to class any questions or problems that arise in your preparation.

Attendance
Attendance will be taken each class period through the use of a sign-in sheet or online ALEKS.

How to Do Well in this Course
Prepare for class by reading the text and working through the examples in the reading and on ALEKS.
Do the homework assignments early.
Get help early in the semester.
Come in to my office during office hours with questions.
Use the Mathematics Tutoring Lab CLC 419
Cell Phones
Please turn off and put away all cell phones during class. Cell phones may not be used as a calculator during exams.

Academic Honesty
Class policy for academic integrity listed below comes from the Xavier University Catalog entry on Academic Honesty. You may access the online Xavier Catalog at this web address:
http://www.xavier.edu/catalog

- All work submitted for academic evaluation must be the student's own.
- The direct and unattributed use of another’s efforts is prohibited as is the use of any work untruthfully submitted as one’s own.
- Penalties for violations of this policy may include one or more of the following: a zero for that assignment or test, an “F” in the course, and expulsion from the University.