Mathematics 1060 Q

"PreCalculus"

Spring Semester – 2013

Instructor: Mr. John B. Galvin

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Recommended Preparation: MA 1011 Q or its equivalent

Meeting Times: Room 326: Tuesday & Thursday: 3:30 – 4:45 P.M.

Textbook: "PreCalculus": UCONN: 5th Edition - 2012: J. Douglas Faires/James DeFranza

Supplies: A graphing scientific programmable calculator is absolutely necessary for this course, and an ample supply of graph paper (¼ inch preferred).

General Information

Assignments: The ten homework assignments will be collected on the appropriate Due Date and will be graded based on the **correctness** of solutions, **neatness** and **completeness** of presentation of details (not just a listing of final answers), and the **overall quality** of the mathematics.

Grading: Quizzes (announced and unannounced) are frequently given, totaling 10 – 12 during the semester. Two **tests** will be given during the course (late February and early April). The **Final Exam** will be given on Tuesday, May 7th at 3:00 P.M. The grade that you earn in this course will be determined by your performance on the quizzes (25%), two tests (25%), ten homework assignments (25%), and final exam (25%).

Attendance: For class notes, handouts, test dates, assignment adjustments, quizzes, and other relevant information it is very important to be **present** and **on time** for ALL classes.

Office Hours: I will be available upon request on Wednesday afternoons (1:00 – 1:45 P.M.) in Room 326, or at other times by appointment , to answer questions that you may have or to go over class notes in more detail. Also, I can be reached at the above email address.

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Course Information

Part 1: Topic Outline

A. General Characteristics of functions

- Domain & Range of functions
- X and Y Intercepts of functions
- Graphs of functions
- Symmetry of functions
- Odd / Even functions
- One – to –One functions
- Inverses of functions
- Increasing/Decreasing functions
- Piecewise functions
- Composition of functions

B. Algebraic Functions

- Linear Functions
- Quadratic Functions
- Polynomial Functions
- Rational Functions

C. Exponential Functions

D. Logarithmic Functions

E. Trigonometric Functions

F. Inverse Trigonometric Functions

Part 2: Topic Schedule

- Weeks 1,2 ----------Chapter 1
- Weeks 3,4,5 ---------- Chapter 2
- Weeks 6,7 ----------Chapter 3
- Week 8---------- Chapter 5
- Spring Break
- Weeks 10, 11----------Chapter 5
- Weeks 12, 13, 14, 15----------Chapter 4

N.B. This schedule is tentative and subject to change at any time. The tests are scheduled for late February (after Chapter 2) and mid April.