

## Master Syllabus

### **MAT 1460 - Mathematics for Business Analysis**

**Division:** Science, Mathematics and Engineering

**Department:** Mathematics

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Prerequisite(s):** MAT 0300

**Other Prerequisite(s):** AND Other with a grade of C or better or satisfactory score on math placement test

**Date Revised:** January 2018

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### **Course Description:**

Applications of mathematics and functions to business analysis. Linear applications, functions, financial mathematics, systems, matrices, inequalities. Traditional testing (proctored or in Testing Center) is used in all online sections. Note: Students who have not completed the required prerequisite courses listed, but have successfully completed MAT 0200 with a grade of C or better, can register for MAT 1460 together with the co-requisite course MAT 0460, Booster for Mathematics for Business Analysis.

### **General Education Outcomes:**

- Critical Thinking/Problem Solving Competency

### **Course Outcomes:**

#### **Graphs of Polynomial and Trancendental Functions**

Demonstrate the ability to graph polynomial, exponential and logarithmic functions.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Pass locally developed exams with a score of 70% or better.

#### **Linear, Quadratic, Exponential and Logarithmic Equations**

Demonstrate the ability to solve linear, quadratic, exponential and logarithmic equations.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Pass locally developed exams with a score of 70% or better.

#### **Matrix Row Operations**

Demonstrate the ability to perform matrix row operations.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Pass locally developed exams with a score of 70% or better.

### **Outline:**

Linear, Quadratic, Polynomial, Rational, Exponential, Logarithmic, Piecewise

Mathematics of Finance - Simple and Compound Interest, Future and Present Value

Systems and Matrices - Gauss-Jordan Elimination

Inequalities and Linear Applications