MATH –U126

Precalculus-I

Summer-I 2016
ONLINE Course

Instructor: Dr. M. Hameed
Contact: 864-503-5371, mhameed@uscupstate.edu

Office: Hodge 220,

- **Very Important:** **This is an online class. Things will go differently than a regular course. Please read this syllabus very carefully to understand the course layout. If you have questions, contact me right away and I will explain things further.**

- **Required Text:** ***PRECACULUS, (9th Edition)*** by Larson, Hostetler; Published by Houghton Mifflin
  Selected Problems will be assigned from the book. Your test/Quiz questions will be similar to HW problems. Therefore access to a book is highly recommended.

- **Grading Policy:** The final grade will be determined as follows:
  Two Midterm Tests (100 points + 100 points), 15 Quiz (100 points),
  Accumulative Final (200 points) (Total 500 Points)

  Your final letter grade will be based on the following percentage Scale:

A	90-100		B	80-86	C	70-76	D	60-66
B+	87-89		C+	77-79	D+	67-69	F	0-59

Homework & Quiz:

Homework Problems
will be assigned regularly from every section covered. Please practice all the problems. You are NOT required you to submit HWs, instead I will quiz you from each section, and questions in the quiz will be very similar in concept to HW problems.

Quizzes
We will have 15 Quizzes total, approximately 3 to 4 every week.. You will need to complete each quiz online in Blackboard. Quizzes will carry a substantial weight towards to your final grade. Just to give you an idea, all Quizzes will be equal to one midterm test in weight. So please take them very seriously

- **Exams:** There will be two midterm exams during the semester and one final exam.

Midterm -1	June 10, 2016
Midterm -2	June 24, 2016
Final Exam	June 30 , 2016

Midterm and final exam questions will be very similar in concept to these homework problems. Therefore, it is vital that you attempt HW problems and take the Quiz.

- **Exam Delivery:** All exams will be **online in Blackboard**, it will be your responsibility to complete your exam within assigned time frame. **Each exam will have two parts** explained below;

  Multiple-Choice-Part: You will complete it electronically in Blackboard. Just select the correct answer, you might need to do some work to reach at the correct choice, but you don't need to show any work. This part of the test will be graded automatically and you will know your score as soon as you submit.

  Show-Your -Work-Part: This part of the test will require you to solve given problems by hand on paper**, you MUST show all steps**.

- **Slides & Video Lectures:** For each section, I will provide complete study material. Power point slides and my own recorded video lectures will be uploaded to USC Upstate Blackboard. In video lectures, I will explain important concepts. Students should download lectures slides and must watch video lectures to understand the course material completely.

- **Blackboard Discussion Board:** I will keep an active discussion board via Blackboard. Please feel free to express your thoughts on the course material. You can also ask questions, about the material in slides, video lectures and most importantly about HWs. I will regularly respond to your questions, concerns and suggestions.

- **Disability Accommodations:** In accordance with University policy, any student with a disability who requests academic accommodations should contact Disability Services at 503-5199 to arrange an appointment with a Disability Services staff member.

COURSE OUTLINE AND HOMEWORK

(Homework Will Be Assigned every week on Blackboard)

	SECTION	TOPIC
	CH 1	**FUNCTIONS & THEIR GRAPHS**
1	1.1	Rectangular Coordinates
2	1.2	Graphs of Equations
3	1.3	Linear Equations in Two Variables
4	1.4	Functions
5	1.5	Graphs of Functions
6	1.6	A library of Parent Functions
7	1.7	Transformation Of Functions
8	1.8	Combinations of Functions
9	1.9	Inverse Functions
10	1.10	Mathematical Modeling and Variations
	CH 2	**POLYNOMIAL & RATIONAL FUNCTIONS**
11	2.1	Quadratic Functions And Models
12	2.2	Polynomial Functions of Higher Degrees
13	2.3	Polynomial and Synthetic Division
14	2.4	Complex Numbers
15	2.5	Zeros of Polynomial Functions
16	2.6	Rational Functions & their Graphs
17	2.7	Nonlinear Inequalities
	CH 3	**EXPONENTIAL & LOGARITHMIC FUNCTIONS**
18	3.1	Exponential Functions And Their Graphs
19	3.2	Logarithmic Functions & Their Graphs
20	3.3	Properties of Logarithmic Functions
21	3.3	Exponential And Logarithmic Equations
22	3.4	Exponential And Logarithmic Models
	CH 7	**SYSTEM OF EQUATIONS & INEQUALITIES**
23	7.1	Linear and nonlinear System of Equations
24	7.2	System of Linear Equations in 2 Variables