Name				ID-4		Phone		
						Email		

	Week 1, 2	Week 3, 4	Week 5, 6	Week 7, 8	Week 9, 10	Week 11, 12	Week 13, 14	Week 15, 16
Quizzes								
Summaries								
Quizzes								
Summaries								
Project								
Midterm								
Final								
Grade	A: 90+	B: 80-89	C: 70-79	D: 60-69	F: 0-59			

Instructor: Bonnie Kelly

Office: Henry Hall, #24

Course: MA 110, TTH 8-9:20, H37

Email: bkelly@chaminade.edu

Online Resources: TBA

Phone: 735-4872 (W); 294-9699 (H)

Hours: MWF 11:30 - 12:30 am, TTH 9:30 - 10:30 am

Text: Precalculus, Stewart/Redlin/Watson

Resources: Electronic Companion to Precalculus

Calculus Concepts

Tentative Syllabus: This is a *tentative* schedule to allow for any unforeseen circumstances. Do not miss any days. If you miss a class, it is your responsibility to get notes and homework from a classmate. Course and class policies are below.

Week 1, 2: Review of fundamentals – generic graphs, lines, circle, slope, domain, range, intercepts

Week 3, 4: Polynomial and rational functions – graphing, inverse, extrema, applications

Week 5, 6: Exponential & log functions - graphs, equations, rules, applications

Week 7, 8: Review for **Midterm**

Week 9, 10: Trigonometric functions – graphing, unit circle, right triangles, law of sines / cosines

Week 11, 12: Trigonometric functions – identities, equations, formulas, applications

Week 13, 14: Conics, polar and parametric equations, applications

Week 15, 16: Project completion, review for Final

*** The semester begins Monday, August 27 with the last day of class Friday, December 7, 2001. There are no classes on these days: Labor Day, Discoverer's Day (Oct. 8th) and Veteran's Day (Nov. 12th). Thanksgiving holidays are November 22 - 23rd. Final exams run from December 10 - 14th. ***

Course Topics

These are most of the topics covered in this course, not necessarily in this order.

Formulas:	slope, function definitions, unit circle definitions, difference quotient, trigonometric
Equations:	solving for variable(s), solving inequalities, linear systems, identities, polar, parametric
Functions:	linear, polynomial, rational, exponential, logarithmic, trigonometric, conics, polar
Graphing:	functions - linear, polynomial, rational, exponential, logarithmic, trig, analytic geometry
Applications:	business, velocity, rates of change, growth and decay, modeling, triangulation/navigation

Other topics that will be covered are: **computer use, the Internet, and resources.**

Expectations in this course:

i)   a working knowledge of algebra or of some of the concepts to be covered

ii)   a polite, tolerant and "can-do" attitude at all times (even when frustrated)

iii)   loose leaf paper, pencils w/ eraser, graph paper, floppy disk

iv)   a calculator that can do exponentials, logs, statistical data (graphing capability is great but you will have to know how to use it on your own)

v)   attendance at all times - if you are absent then there is at least one quiz missing

vi)   all assigned work to be done by due date – points off for lateness

vii)   self-determination = responsibility = independence = ability to achieve growth

Problem Sets

Unless noted in class as important, selected exercise problems in general, will be announced on a separate sheet.

Grading

A. **Quizzes (20 points):** The quiz grade is mainly from in-class quizzes. A form of pop-quiz is given directly after a concept has been taught. Some quizzes are take-homes. There should be enough opportunities to obtain 30-40 quizzes. To make up for a poor score in a quiz, 5 "redos" must be done for each wrong problem within one week of return. This is not just writing out 5 times the correct answer. This is creating and solving 5 different examples of the same kind of problem you missed. Please include original quiz with the redos. A missing quiz (even with excused absence) is a zero.

B. **Summaries (20 points):** These are to be typed and class-dated at all times. These are a synopsis of what we did in class that week: minimum 15 sentences (which does not include the math) describing topics discussed, any assignments, at least one math example from class, and, one original math example of the same type shown. More garners more points. You may state and solve one from in class or from the book but then you must create and solve your own. The math is to be typed as well using MS Equation, Mathcad, or any application that gives professional results. Please do not use carets, etc., for exponents because MS Equation can do this. If graphing is covered, do an example of this as well (this may be done in pencil with graph paper if necessary). *If we do not have any new math in the week, math examples are still expected in the summary.* You should include examples of any other learning that took place as well. The summary is to be handed in at the beginning of class. Weekly summaries are due the first day of the next week. **No summary = 0.**
Note: There is one overall summary, the **AAR** of the course due the last week of classes. This is equivalent to more than one summary in points. The AAR refers to "**After Action Review**" which incorporates your responses to: **a)** What was supposed to happen? **b)** What did happen? **c)** What went right? **d)** What went wrong? and, **e)** What could be improved? These responses are concerning the course and how it was run. Math is not required in the AAR.

C. **Project (20 points):** Possible options for projects range from tutoring math in Service Learning to creating online math tutorials including real applications. Each project must be discussed with and approved by instructor. Projects may be done individually or in a group. All projects are graded proportionately to the number of individuals involved.

D. **Exams (40 points):**   A traditional **Midterm** (20 points) and traditional **Final** (20 points) exam are scheduled.

E. **Policies:**   You are responsible for knowing what went on in each class whether you are absent or not. For any missed class, valid documentation for absence is required. If you do not understand any concept, stay after class or go to office hours. If you are having problems with the pace of the course or need extra provisions for completing assignments or tests, please have documentation before these are due. All missing work or quizzes are zeros. Be on time for class. If you are late and lecture has begun, enter quietly and take the nearest seat available. Class is dismissed on time or when instructor so indicates. Student honor code is according to your handbook. Plagiarism, copying, and unapproved cheating may result in forfeiture of grade. This applies to computer use and Internet research as well.

F. **Notes:**   Do not leave anything to the last minute. Phone instructor at all times when you experience difficulty completing a task. Your grade is an **accumulated** total at all times. Because the points are distributed among many different items, you need to keep up with each item. There is no "curve" nor "average overall".