Course: MATH 1113 Precalculus, Section N01 ONLINE 4 credits

PREREQUISITE: Four years of high school mathematics including algebra and trigonometry, appropriate score on SAT or ACT, or passed MATH 1111 with a C or better.

Course Description: This course is designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic and transcendental functions accompanied by analytic geometry. Credit for this course is not allowed if the student already has credit for MATH 1634.

Learning Outcomes: Students should be able to demonstrate:
1. An understanding of functions and how to graph functions
2. An understanding of operations on functions including function composition
3. An understanding of polynomial and rational graphs, including intercepts and asymptotes
4. An understanding of how to find the zeros of a polynomial and how to factor polynomials
5. An understanding of inverse functions and how to find them graphically and algebraically
6. An understanding of the properties of exponential and logarithmic equations
7. An understanding of how to solve exponential and logarithmic equations
8. An understanding of how to find the values of the trigonometric functions from right triangles and circles
9. An understanding of how to graph the trigonometric functions
10. An understanding of how to prove trigonometric identities
11. An understanding of how to use the sum, difference, double-angle and half-angle formulas for sine and cosine
12. An understanding of how to solve triangle using the law of sines and law of cosines
13. An understanding of polar coordinates and graphs
14. An understanding of how to analyze and solve applied problems

Instructor: Mr. Jim Bellon (best way to contact me is through CourseDen) or jbellon@westga.edu

Office & Hours: Boyd 104C Mondays 11:30 - 12pm and 1:45 - 3:15pm
Boyd 205 Math tutoring Center Tue/Thu 9-11am, 2-4pm
ONLINE in CourseDen Wednesdays from 7:30-8:30pm or by appointment

Class Meets: Online in UWG CourseDen and Pearson’s MyMathLab website

Grading: Online quizzes (avg counts 35%), online HW assignments (avg counts 30%), participation (10%), Final exam (25%). Lowest HW and lowest Quiz will be dropped.

Final grades determined as follows:

89.5 % and higher = A
79.5 % to 89.4 % = B
69.5 % to 79.4 % = C
60 % to 69.4 % = D
Below 60 % = F

Make-up policy: There are no make-ups for online assignments or quizzes. You are expected to keep up with learning the material each week, completing assignments by the due dates, and getting help when needed. Make-ups for exams may be granted with a valid documented excuse, and only if you notify me before or on the day of the test.

Extra-credit policy: There will be NO extra credit given, period! The only opportunity to earn better grade is to take the “Are You Ready?” Quiz in MyMathLab and if you do well, it will replace a low quiz grade. All other points can be earned only as stated above.
Attendance Policy: Attendance in class is MANDATORY. You MUST take the Syllabus Quiz in CourseDen to remain active in the course. Students are expected to login to CourseDen at least TWICE EVERY WEEK (Mon-Sun) and view the calendar and also check for assignments on MyMathlab. Failure to do so will result in missing assignments and maybe being dropped.

Course Materials:

#1 A graphing calculator is REQUIRED (preferably one of the TI-83 or 84 models).

#2 Students are required to purchase web access to the E-book. Options are:

- get immediate access by paying with credit card during the registration process at www.pearsonmylabandmastering.com
- buy MyMathLab-Student-Access-Kit at the bookstore.
- find MyMathLab access code kit on Amazon.com (cheapest but takes a few days)

**while you are waiting for access code or funds, you can still register with temporary access.** Once you register at the website, you need to join our course. The course ID is: bellon59733


Class Rules: It is expected that students be familiar with the Student Conduct Code, Disciplinary Procedures and Disciplinary Sanctions in the Student Handbook. Cheating and/or any conduct that disturbs the classroom, the instructor, or the students WILL NOT be tolerated!! Any serious violations will be reported. For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the Common Language for Course Syllabi documentation at http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf.

Getting Help: If you can get to UWG campus, come to my office hours or one of the campus tutoring centers. Or visit my online office hours in CourseDen.

Math Tutoring Center On Campus  Boyd 205
Summer Hours are Mon/Tue/Wed/Thurs 9am-4pm.
You can just walk in and get help. There are 2-3 tutors on duty who will rotate between students.
There are also textbooks and computers to use while you are in the tutoring center.

You can also get 1-1 tutoring appointments through the Center for Academic Excellence in the UCC.

Also ONLINE TUTORING, via SmartThinking. See link in CourseDen.

Final Exam: The final exam must be taken at a location with a proctor. You will take the final exam online in MyMathLab. You can take it any day/time by appointment from Wed July 27th through Saturday July 30th. If possible, make appointment to take exam at the UWG campus in Carrollton, GA. If that is not possible, then contact me (your instructor) for other testing sites. Off campus testing sites usually charge a fee, which will be your responsibility. Make your appointment AT LEAST TWO WEEKS before your test date.

DURING the FIRST WEEK, please take the “Are you ready?” quiz online in MyMathLab. It will tell you how much work you need to do reviewing college algebra material, so that you can handle the regular precalculus material. You can take it 3 times and review each time to make sure you know the algebra review material. Your score does not officially count as a grade, HOWEVER, if you do well on your best attempt, I will count it to replace a low quiz score during the course.
This is the schedule of assignments and topics to be covered. Changes will be made as needed. Complete assignments and do any extra practice or get help as needed. Don’t wait until it’s too late (like after doing bad on a quiz or exam). This schedule is a listing of what you need to do overall. You can follow the content flow in CourseDen by starting with the “Introduction/Start Here” module, following the tasks and links for each WEEKLY module. You can work ahead.

WEEK 1 Mon 6/6 – Sun 6/12
In CorseDen (D2L) open the module **Introduction (start here)** and follow the tasks.
1. Read through this syllabus and make note of important info and dates
2. Take the syllabus quiz in CoursDen (*participation grade AND Attendance*)
3. Get setup in MyMathLab and do Browser Check and How to Enter Answers
4. Take the Are You Ready quiz in MyMathLab
5. Read through the ebook in MyMathLab and study any topics that you missed on the Are You Ready Quiz or you feel you don’t know well (Sec P2-P9, 1.1-1.6)
6. Do the HW for the review sections in MyMathLab (*HW grade*)
7. Post your introduction in the CourseDen discussion area (*participation grade*)

WEEK 2 Mon 6/13 – Sun 6/19
In CorseDen (D2L) open the module **WEEK 2** and follow the tasks.
**Topics:** Function Operations, Inverse Functions, Rational Functions, Rational Inequalities
1. Read through the ebook in MyMathLab, sections 1.7, 1.8, 2.6, 2.7
   [you may need to review early sections in chapter 2 if you struggle with 2.6 or 2.7]
2. Do the HW for the above sections in MyMathLab (*HW grades*)
3. Take Quiz #1 in MyMathLab (*Quiz grade*)
4. Resply to 2 students in the introduction discussion area (*participation grade*)

WEEK 3 Mon 6/20 – Sun 6/26
**Topics:** Exponential Functions, Log Functions, Exp/Log Equations, Applications
1. Read through the ebook in MyMathLab, sections 3.1, 3.2, 3.3, 3.4, 3.5
2. Do the HW for the above sections in MyMathLab (*HW grades*)
3. Take Quiz #2 in MyMathLab (*Quiz grade*)

WEEK 4 Mon 6/27 – Sun 7/3
**Topics:** Angles, Trig Functions, Triangles, Graphs of Trig Functions
1. Read through the ebook in MyMathLab, sections 4.1, 4.2, 4.3, 4.4, 4.5, 4.6
2. Do the HW for the above sections in MyMathLab (*HW grades*)
3. Take Quiz #3 in MyMathLab (*Quiz grade*)
4. Make appointment for your proctored final exam (*participation grade*)

WEEK 5 Mon 7/4 – Sun 7/10
**Topics:** Inverse Trig Functions, Applications of Trig Functions, Trig Identities
1. Read through the ebook in MyMathLab, sections 4.7, 4.8, 5.1, 5.2
2. Do the HW for the above sections in MyMathLab (*HW grades*)
3. Take Quiz #4 in MyMathLab (*Quiz grade*)
4. Post to the midcourse discussion area in CourseDen (*participation grade*)

WEEK 6 Mon 7/11 – Sun 7/17
**Topics:** Trig Equations, Law of Sines, Law of Cosines, Triangle Area Formulas
1. Read through the ebook in MyMathLab, sections 5.3, 5.5, 6.1, 6.2
2. Do the HW for the above sections in MyMathLab (*HW grades*)
3. Take Quiz #5 in MyMathLab (*Quiz grade*)
4. Reply to 2 students in midcourse discussion area (*participation grade*)

WEEK 7 Mon 7/18 – Fri 7/22
**Topics:** Polar Coordinates, Vectors, Applications, Systems of Equations
1. Read through the ebook in MyMathLab, sections 6.3, 6.6, 7.2, 7.4
2. Do the HW for the above sections in MyMathLab (*HW grades*)
3. Take Quiz #6 in MyMathLab (*Quiz grade*)

WEEK 8 Sat 7/23 – Sat 7/30
In CorseDen (D2L) open the module **WEEK 8** and follow the tasks.
1. Review for Final Exam by looking over past HW and Quizzes
2. Take Final Practice test in MyMathLab (*participation grade*)
3. Get help if needed.
4. Take Final Exam during your appointment (*Final Exam grade*)