

Course: MATH 1113 Precalculus, Section 01 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 every class day 1 - 1:45pm

Class Meets: in TLC 1116 computer classroom, everyday 8am – 12:30pm
Starts Friday May 11th through Friday May 25th
*****FINAL EXAM (all chapters) on Tuesday May 29th 8-10am in our classroom.**

Grading: online HW assignments (avg counts 40%), online quizzes (avg counts 20%) online Midterm exam (20%), online Final exam (20%). 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 day, 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! All other points can be earned only as stated above.

Attendance Policy: Attendance in class is MANDATORY. Students are expected to login to CourseDen and view the calendar and also check for assignments on MyMathlab. Failure to do so will result in missing assignments and maybe being dropped. Students are expected to attend class and complete all work when assigned. Students are responsible for the topics covered and assignments due whether present or not. **“I was not here” is NOT a valid excuse.**

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

#2 Students are required to get 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.

****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: **bellon25611**
The actual textbook is optional. “Precalculus” 5th edition by Blitzer, from Pearson Publishers.

Class Rules:

Please do not talk or text on cell phone during the class. You are not allowed to use your phone as a calculator on tests. Please respect your instructor and other students in the class. No talking or any distracting behavior. If you fall asleep in class, you will be asked to leave. 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.

**Meeting with:
Instructor**

can be beneficial and is encouraged. Meeting should occur during the instructor's office hours, whenever possible. If these hours conflict with a student's schedule, then appointments should be made. The meeting time is not to be used for duplication of lectures that were missed; it is the student's responsibility to read the textbook sections, obtain and review lecture notes before consulting with the instructor. As your instructor, I am very concerned about the student's achievement and well-being and encourages anyone having difficulties with the course to contact me for extra help.

Note: If you have a documented disability, which will make it difficult for you to carry out the course work as I have outlined and / or if you need special accommodation or assistance due to disability, please contact me as soon as possible.

Math Tutoring:

On Campus Boyd 205 open Mon 14th through Fri 25th 9am-3pm.
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.

This is a tentative schedule of assignments and topics to be covered in class sessions. Changes will be made as needed. Once we finish a section, we will immediately move along to the next section. You should read over text sections BEFORE we cover them in class. After we cover topics, you should complete assignments and do any extra practice or get help as needed. Don't wait until its too late (like after doing bad on a quiz or exam).

- Fri May 11th Introduction, online setup, review algebra material , take Are You Ready Quiz?
- Mon May 14th Cover sections 1.7 Composite Functions, 1.8 inverse functions
2.6 Rational Functions, 2.7 Polynomial and Rational Inequalities
Assignments due: HW1 review topics
- Tue May 15th Cover sections 3.1 Exponential Functions, 3.2 logarithmic functions, 3.3 properties of logarithms
Assignments due: HW2 sec 1.7-1.8 and HW3 sec 2.6-2.7
- Wed May 16th Cover sections 3.4 exp/log equations, 3.5 growth & decay
Assignments due: HW4 sec 3.1 and HW5 sec 3.2-3.3 and Quiz 1
- Thu May 17th Cover sections 4.1 Angles, 4.2 The Unit Circle
4.3 Right Triangle Trigonometry, 4.4 Trig Functions
Assignments due: HW6 sec 3.4-3.5
- Fri May 18th Cover sections 4.5 Graphs of Sine/Cosine, 4.6 Other Trig Functions
Review for midterm exam
Assignments due: HW7 sec 4.1-4.2 and HW8 sec 4.3-4.4
- Sat May 19th **Assignments due: HW9 sec 4.5-4.6 and Quiz 2**
- Sun May 20th **Assignments due: practice for midterm**
- Mon May 21st **MIDTERM EXAM in class** (chapters 1, 2, 3, sec 4.1-4.6)
Then cover 4.7 Inverse Trig functions, 4.8 Applications of Trig Functions
- Tue May 22nd Cover sections 5.1 Trig Identities, 5.2 Sum and Difference
Assignments due: HW10 sec 4.7-4.8
- Wed May 23rd Cover sections 5.3 Double/Half Angle, 5.5 Trig Equations
Assignments due: HW11 sec 5.1-5.2 and Quiz 3
- Thu May 24th Cover sections 6.1 Law of Sines, 6.2 Law of Cosines, 6.3 Polar Coordinates
Assignments due: HW12 sec 5.3-5.5
- Fri May 25th Cover sections 7.2 Systems of Equations in 3 Variables, 7.4 Systems of Nonlinear Equations
Review for final exam
Assignments due: HW13 sec 6.1-6.2 and HW14 sec 6.3
- Sat May 26th **Assignments due: HW15 sec 7.2-7.4 and Quiz 4**
- Mon May 28th **Assignments due: practice for final exam**
- Tuesday May 29th ***FINAL EXAM (sec 4.7-4.8, chapters 5, 6, 7, 8) 8-10am in our classroom.**