

MATH 1113 – Precalculus Spring 2019

Section 11

MON WED	11:00 am - 12:15 pm	NURSING BLDG	110
FRI	11:00 am - 11:50 am	BOYD BLDG	303

Section 05

MON WED	02:00 pm - 03:15 pm	MILLER HALL	2214
FRI	02:25 pm - 03:15 pm	BOYD BLDG	303

Hours Credit: 4 hours

Prerequisites: A grade of C or better in MATH 1111 or an SAT Math score of at least 500 or an ACT Math score of at least 20

COURSE INSTRUCTOR

Instructor: Irina Pashchenko
Office: Library #311
Email: ipashche@westga.edu
Phone: (678) 839-3939

OFFICE HOURS: MWF 3:30 pm – 4:30 pm Library #311
MW 12:30 pm – 1:00 pm Math Lab Boyd #205

REQUIRED TEXT

College Algebra and Trigonometry, Abramson, Openstax. Student can download for free at <https://openstax.org/details/books/algebra-and-trigonometry>. Students should go to “Download a PDF” and download the High Resolution version.

You are required to have a MyOpenMath online account for your homework assignments.

Courses 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.

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 types of functions.
4. An understanding of rational functions and their graphs, including intercepts and asymptotes
5. An understanding of how to find the zeros of a polynomial and how to factor polynomials
6. An understanding of inverse functions and how to find them graphically and algebraically

7. An understanding of the properties of exponential and logarithmic equations
8. An understanding of how to solve exponential and logarithmic equations
9. An understanding of how to find the values of the trigonometric functions from right triangles and circles
10. An understanding of how to graph the trigonometric functions
11. An understanding of how to prove trigonometric identities
12. An understanding of how to use the sum, difference, double-angle and half-angle formulas for sine and cosine
13. An understanding of how to solve trig equations
14. An understanding of how to solve triangle using the law of sines and law of cosines
15. An understanding of polar coordinates and graphs
16. An understanding of how to analyze and solve applied problems

COURSE ASSESSMENT

Students' mastery of course learning outcomes will be assessed using the following methods:

Homework

All homework assignments will be completed online through the MyOpenMath website. Be sure to understand all problems and be able to show all steps in the solutions if they are required. The Course ID is printed in the MyOpenMath instruction that is included at the end of the syllabus. Each homework assignment is due on the corresponding chapter exam day and will not be available afterward. After a particular assignment's deadline has passed, I will NOT participate in any discussion (in person, by phone, or email) about the deadline.

Tests

There will be four in-class tests. All tests will be taken during the regular class time in the regular classroom. Books and notes will not be allowed on any tests. Each student may use one two-sided handwritten by himself (herself) page of notes for the tests. Missed tests will receive a grade of 0. The lowest test grade will be dropped. THERE WILL BE NO MAKE UPS. We will have a review session before each test. One regular narrow green scantron form will be required for each test and the final exam.

Final Exam

There will be a comprehensive final exam at the end of the semester given in the regular classroom. The exam will be given on Monday, May 6, 11:00am – 1:00 pm for the class that meets in the Nursing Building and on Monday, May 6, 2:00pm – 4:00 pm for the class that meets in the Miller Hall.

Class Participation

Each student will be credited with 40 participation points at the beginning of the semester, one for each class lecture. Two equally important parts will allow a student to keep his (her) point per class lecture.

Regardless of your ability to understand the material, you are expected to be present for each class meeting. You are allowed to have no more than three unexcused absences for the course. After that, you will lose one point per each unexcused absence. An absence is considered to be

excused if you had a serious reason for missing a class like admission to a hospital or a death in your family. An official document explaining your absence needs to be emailed to me. Moreover, regardless of how well you understand the material, you are expected to pay attention to every lesson presented by your teacher. Should you expect any important phone call, keep your phone on vibration. Then, step outside to receive your call if necessary. There is a group of prohibited activities in class, which includes, but is not limited to receiving any phone calls or text messages, initiating phone calls or text messages, touching any electronic devices with your hands, keeping headphones or other electronic devices visible on any parts of your body or clothes, even if you believe that they are turned off. Once any of the prohibited activities occur, the student loses a participation point for that day. If a student who lost his (her) participation point continues behaving the same way during the same class, the student will be asked to leave. Taking notes in class is recommended, but not mandatory. In order to keep a participation point for each lesson, a student is just expected to be in class and avoid using electronic devices.

NOTE: Only a calculator performing basic arithmetic operations is allowed during your tests and final exam. A calculator, which is a part of your cell phone, iPod, or any other electronic devices will not be allowed. You are not allowed to share calculator with any other party in your class during any in class tests or exams unless permitted by your instructor.

ASSESSMENT GRADING:

MyOpenMath Homework	25%
Tests	45%
Final Exam	25%
Class Participation	5%

Grading Scale:

90% - 100%:	A
80% - 89%:	B
70% - 79%:	C
60% - 69%:	D
<60%:	F

NOTE: No extra-credit assignments of any kinds will be offered during the course.

STUDENT CONDUCT

Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom. The following is also mandatory:

- Respect the rights, interests, and values of others
- Respect the professionalism of the instructor
- No talking to each other when the instructor is lecturing
- No packing your possessions before the lecture is over
- No walking in the classroom (unless you need to use a restroom)
- Watch your language
- Turn off ALL your electronic devices. This includes cell phones, CD players, etc.

- Conduct that disrupts the classroom environment will not be tolerated

OTHER COURSE INFORMATION

It is the student's responsibility to catch-up on any missed material. It is the student's responsibility to get notes from their classmates.

COURSE POLICIES AND INFORMATION

University Policies and Academic Support

Please carefully review the following Common Language for all university course syllabi at the link.

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

https://www.westga.edu/administration/vpaa/assets/docs/facultyresources/common_language_for_course_syllabi_v2.pdf

Academic Honesty

Any form of academic dishonesty will result in a failing grade for the assignment for the first offense (students will not be able to replace this grade). A second offense will result in a failing grade for the course. All forms of academic dishonesty will be reported.

Academic dishonesty is defined as a student's use of unauthorized assistance with intent to deceive an instructor or other such person who may be assigned to evaluate the student's work in meeting course and degree requirements.

Definitions of academic dishonesty are defined in the student handbook:

www.westga.edu/handbook/

Disabilities Act/Accessibility for the Course

If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content. Please contact UWG Accessibility Services for more information.

Math Tutoring Center

Located in Boyd 205, MTC has a number of computers and some math tutors who can help you in studying math courses.

Class Schedule:

01/07/19	INTRO	
01/09/19	3.1, 3.2	Functions and Function Notation, Domain and Range
01/11/19	3.3	Rates of Change and Behavior of Graphs
01/14/19	3.4, 3.5	Composition of Functions, Transformation of Functions
01/16/19	3.7	Inverse Functions
01/18/19	5.1	Quadratic Functions
01/23/19	5.2, 5.3 NHW	Power Functions and Polynomial Functions, Graphs
01/25/19	5.6	Rational Function
01/28/19	Review	
01/30/19	TEST 1	
02/01/19	6.1	Exponential Functions
02/04/19	6.2	Graphs of Exponential Functions
02/06/19	6.3	Logarithmic Functions
02/08/19	6.4	Graphs of Logarithmic Functions
02/11/19	6.5	Logarithmic Properties
02/13/19	6.6	Exponential and Logarithmic Equations
02/15/19	6.7	Exponential and Logarithmic Models
02/18/19	Review	
02/20/19	TEST 2	
02/22/19	7.1	Angles
02/25/19	7.2	Right Triangle Trigonometry
02/27/19	7.2, 7.3	
03/04/19	7.3	Unit Circle
03/06/19	7.4 NHW	Other Trigonometric Functions
03/08/19	8.1	Graphs of Sine and Cosine Functions
03/11/19	8.1, 8.2	
03/13/19	8.2	Graphs of Other Trigonometric Functions
03/15/19	8.3	Inverse Trigonometric Functions
03/25/19	Review	

03/27/19	TEST 3	
03/29/19	9.1	Solving Trigonometric Equations with Identities
04/01/19	9.1, 9.2	
04/03/19	9.2	Sum and Difference Identities
04/05/19	9.3	Double-Angle, Half-Angle and Reduction Formulas
04/08/19	9.3, 9.4	
04/10/19	9.4	Sum to Product and Product to Sum Formulas
04/12/19	9.5	Solving Trigonometric Equations
04/15/19	10.1	Non-Right Triangle: Law of Sines
04/17/19	10.2	Non-Right Triangle: Law of Cosines
04/19/19	10.3	Polar Coordinates
04/22/19	Review	
04/24/19	TEST 4	
04/26/19	Review	
04/29/19	Review	
05/06/19	Final Exam	11:00am – 1:00 pm Nursing Building #110 2:00pm – 4:00 pm Miller Hall #2214

IMPORTANT DATES:

First Day of Class:

Monday, January 7

Drop Ends:

Wednesday, January 9

Last Day to Withdrawal with W:

Wednesday, February 27

Last Day of Class:

Monday, April 29

Final Exam Period:

May 1-7 (see The Scoop for specific times)

No classes:

Monday, January 21 (MLK Day)

Friday, March 1 (Math Day)

Monday March 18- Friday March 22 (Spring Break)

How to register MyOpenMath

Go to <https://www.myopenmath.com/forms.php?action=newuser>
Fill out the form. If you have any questions, please email me.

For the course **Precalculus I: Spring 2019** you do the following:

Select the course you'd like to enroll in

My teacher gave me a course ID (enter below) ▼

Course ID:

Enrollment Key:

For the course **Precalculus II: Spring 2019** you do the following:

Select the course you'd like to enroll in

My teacher gave me a course ID (enter below) ▼

Course ID:

Enrollment Key: