

MATH 112 SYLLABUS (Tuesday) – Spring 2015

COURSE TITLE: Precalculus Algebra **INSTRUCTOR:** _____ **SECTION:** _____

EMAIL: You can email your instructor at ma112mtlc@as.ua.edu. **Please put your instructor's name in the subject box.**

All correspondence for this course will be made through **your crimson email account**. If you have trouble with your crimson account, get help at the OIT help desk located in Gordon Palmer.

PREREQUISITE: Grade of "C" or better in Math 100 or a minimum of 310 on the math placement test. **CREDIT:** 3 semester hours

TEXTBOOK AND ACCESS CODE: "Algebra and Trigonometry", 5th ed. by Robert Blitzer, published by Pearson. This textbook will come in a package which includes the student access code to the publisher's website. An access code is required to complete all assignments and tests for this course. It allows the student to access the publisher's website for the course, where all assignments and tests must be completed and where the entire textbook may be viewed online. Access codes can be purchased with or without a hard copy of the textbook at a bookstore or online from the publisher.

CALCULATOR: For tests, you will be allowed to use the **CASIO FX-260-SOLAR SCHOOL** version (available at the University bookstores) or the testing calculator that is available on the computer. Using another calculator on a test is considered academic misconduct. Practice with it! You cannot get calculator help during testing.

COURSE DESCRIPTION: This is a course in Precalculus mathematics. The course

- Is computer-assisted, which means students will use the computer (along with the instructor) to complete the course. Evaluation will be based on **online homework, quizzes, four tests, and a comprehensive final exam.**
- Presents the essential characteristics and basic processes of inquiry and analysis in the discipline.
- Encourages the development of critical thinking skills and requires students to analyze, synthesize, and evaluate knowledge.
- Considers its subjects in relation to other disciplines and to the human condition.
- Is not limited to majors in any discipline.
- Does not focus on professional skills.

GENERAL LEARNING OUTCOMES FOR 100-200 LEVEL COURSES:

- Students will be able to discriminate between reliable and less reliable information in their decision-making.
- Students will be able to recognize and explain the scientific method, and evaluate scientific information.

LEARNING OUTCOMES FOR THIS COURSE: Upon completion of this course, students will be able to

- Perform operations on polynomial, rational, exponential, and logarithmic functions.
- Graph polynomial, rational, exponential and logarithmic functions using techniques and information gathered about the functions.
- Solve linear, quadratic, exponential, logarithmic, absolute value, and inequality equations.
- Solve systems of equations in two or more variables.

GRADE: This course is under the "A, B, C, and NC" policy; +/- grades will be given.

Note: The last day to drop this course is **Wednesday, March 25, 2015**. No withdrawals from this course after this date.

COURSE GRADE COMPOSITION:

Class/Lab Participation	2%
Homework	8%
Quizzes	10%
Study Plan	10%
4 Tests (10% each)	40%
Final Exam	30%

COURSE GRADE SCALE

A+ 98.0%-100%,	A 92.0%-97.9%,	A- 90.0%-91.9%
B+ 88.0%-89.9%,	B 82.0%-87.9%,	B- 80.0%-81.9%
C+ 78.0%-79.9%,	C 72.0%-77.9%,	C- 70.0%-71.9%
NC ("no credit") below 70%		

Students must earn at least 70% (C-) to successfully pass this course.

TEST DEADLINES

Test 1	Thursday	February 5
Test 2	Thursday	February 26
Test 3	Thursday	March 26
Test 4	Thursday	April 16
Final Exam	Monday-Friday	April 27-May 1

ONLINE TEST REGISTRATION

Tests 1-4:	8am 1/19 – 5pm 1/23
Final Exam:	8am 4/13 – 5pm 4/20

Test times available: Check www.mtlc.ua.edu / Test Registration

Final Exam times available: 8 am, 11:30 am, 3:30 pm, 7 pm (not all times may be available each day)

Please read Test Rules of this syllabus for detailed information.

MTLC INFO: LOCATION: B1 Tutwiler

PHONE: 348-2592

WEBSITE: www.mtlc.ua.edu

HOURS: Monday - Thursday: 8am – 10pm
Friday: 8am – 4:45pm

CLOSINGS: MLK Day: Monday 1/19
Spring Break: Monday 3/16 – Friday 3/20

NOTE: Last day for help in MTLC is Friday 4/24

SOFTWARE LOGIN INFO:**OPTION 1:** Log into myBama, go to your Blackboard Learn courses, click Math 112, click Bridge**OPTION 2:** Go to www.ua.mylabsplus.com, username = crimson email prefix, password = your CWID

Homework and Quizzes have deadline dates and times. You may complete assignments early, but not late.

Class	Section	Title	HW Deadline	Quiz Deadline
1/13		Orientation/ Syllabus Quiz		F 1/16 10pm
	1.2	Linear Equations and Rational Equations	F 1/16 10pm	F 1/16 10pm
	1.3	Models and Applications		
1/19	Online registration for Test Time opens 8am. See www.mtlc.ua.edu , click “Test Reg / Lab Attendance” link.			
1/20	1.4	Complex Numbers	W 1/21 10pm	R 1/22 10pm
	1.5	Quadratic Equation	F 1/23 10pm	M 1/26 10pm
1/23	Online registration for Test Time closes at 5pm. See www.mtlc.ua.edu , click “Test Reg / Lab Attendance” link.			
1/27	1.6	Other Types of Equations	W 1/28 10pm	R 1/29 10pm
	1.7	Linear Inequalities and Absolute Value Inequalities	F 1/30 10pm	M 2/2 10pm
2/3	T1 Rev	Test 1 covers 1.2 – 1.7. See Test 1 Review Problems OPTIONAL NO CREDIT in Homework list.		
	2.1	Basics of Functions and Their Graphs	M 2/9 10pm	M 2/9 10pm
	2.2	More on Functions and Their Graphs	T 2/10 10pm	T 2/10 10pm
2/5	TEST 1 DEADLINE AT YOUR REGISTERED TIME: Check your time at mtlc.ua.edu/test reg .			
2/10	2.3	Linear Functions and Slope	W 2/11 10pm	R 2/12 10pm
	2.4	More Slope	F 2/13 10pm	M 2/16 10pm
2/17	2.5	Transformations of Functions	W 2/18 10pm	R 2/19 10pm
	2.6	Combinations of Functions; Composite Functions	F 2/20 10pm	M 2/23 10pm
2/24	T2 Rev	Test 2 covers 2.1-2.6. See Test 2 Review Problems OPTIONAL NO CREDIT in Homework list.		
	2.7	Inverse Functions	M 3/2 10pm	M 3/2 10pm
	2.8	Distance and Midpoint Formulas; Circles	T 3/3 10pm	T 3/3 10pm
2/26	TEST 2 DEADLINE AT YOUR REGISTERED TIME: Check your time at mtlc.ua.edu/test reg .			
3/3	3.1	Quadratic Functions	W 3/4 10pm	R 3/5 10pm
	3.2	Polynomial Functions and Their Graphs	F 3/6 10pm	M 3/9 10pm
3/10	3.3	Dividing Polynomials; Remainder & Factor Theorems	W 3/11 10pm	R 3/12 10pm
	3.4	Zeros of Polynomial Functions	F 3/13 10pm	M 3/23 10pm
3/24	T3 Rev	Test 3 covers 2.7-3.4. See Test 3 Review Problems OPTIONAL NO CREDIT in Homework list.		
	3.5	Rational Functions and Their Graphs	M 3/30 10pm	M 3/30 10pm
	3.6	Polynomial and Rational Inequalities	T 3/31 10pm	T 3/31 10pm
3/26	TEST 3 DEADLINE AT YOUR REGISTERED TIME: Check your time at mtlc.ua.edu/test reg .			
3/31	4.1	Exponential Functions	W 4/1 10pm	R 4/2 10pm
	4.2	Logarithmic Functions	F 4/3 10pm	M 4/6 10pm
4/7	4.3	Properties of Logarithms	W 4/8 10pm	R 4/9 10pm
	4.4	Exponential and Logarithmic Equations	F 4/10 10pm	M 4/13 10pm
4/13	Online registration for Final Exam opens 8am. See www.mtlc.ua.edu , click “Test Reg / Lab Attendance” link.			
4/14	T4 Rev	Test 4 covers 3.5-4.4. See Test 4 Review Problems OPTIONAL NO CREDIT in Homework list.		
	8.2	Systems of Three Linear Equations	M 4/20 10pm	M 4/20 10pm
	8.4	Systems of Non-linear Equations	T 4/21 10pm	T 4/21 10pm
4/16	TEST 4 DEADLINE AT YOUR REGISTERED TIME: Check your time at mtlc.ua.edu/test reg .			
4/20	Online registration for Final Exam closes at 5pm. See www.mtlc.ua.edu , click “Test Reg / Lab Attendance” link.			
4/21	FE Rev	FE is COMPREHENSIVE. See FE Review Problems OPTIONAL NO CREDIT in Homework list.		
4/27-5/1	FINAL EXAM DEADLINE AT YOUR SPECIAL REGISTERED DAY AND TIME			
5/1	STUDY PLAN DUE		F 5/1 2pm	

Extra Help: Center for Academic Success. See www.cas.ua.edu / Academic Services / Mathematics, select Math 112.

WORKING FROM HOME: The Math 112 course work can be done on your personal computer with internet access.

- **Two ways to get to our course:**

1. Log into MyBama go to your Blackboard Learn courses, and click on Math 112
2. Log into ua.mylabsplus.com with your email prefix and your CWID

- The course software may work better with some browsers than others. If you have trouble, try a different internet browser.
- Always log out of MyLabsPlus when you finish working to avoid being “timed out”. If you get a “**timeout error**” when using the software, clear your browser’s history/delete cookies, close the browser, then try again.
- **No deadline extensions will be given because of issues with a home computer.** To be safe, work well ahead of the deadlines at home, so that if there is any problem you will be able to go to the MTLC and complete the assignment before the deadline.
- **Tests must be taken in the MTLC.**

ATTENDANCE/ PARTICIPATION:

- **CLASS MEETINGS:** Attendance for this course is mandatory and should prove beneficial. You are expected to attend all of your scheduled classes. Class meets every **Tuesday** unless noted. You are expected to attend class in its entirety and participate in the classroom lectures and discussion. The use of personal laptop computers and texting during class time is prohibited. At the **end of the semester** one unexcused missed class will be dropped.
- **LAB ATTENDANCE:** Time spent working on math shows a strong correlation with success in the course. In addition to class attendance, each student is expected to spend sufficient time outside of class to successfully complete each assignment. **Students are not required to be in the MTLC during the scheduled class time on Thursdays, but may use the MTLC any time it is open to work on math assignments.** The MTLC is typically open 64+ hours each week and has plenty of computers as well as a staff of instructors and tutors to help individuals as needed. To encourage and to help ensure success, **every student must spend 75 minutes in the lab each week for lab attendance points. Lab attendance is counted from Monday to Friday each week.** To get credit for attendance, you must swipe your ACT card when you enter the lab AND when you leave the lab. Lab attendance requirement will begin the week of January 12. At the **end of the semester** one unexcused missed lab week will be dropped.

QUIZZES and HOMEWORK: A graded homework AND quiz will be assigned for each section. They must be completed before each expiration date and time. **Each homework question can be worked repeatedly until all questions are correct.** You can select “similar exercise” for any homework question that you miss and try again until you get it correct. You must complete an entire quiz, then hit the “Submit” button to score your quiz. You may review your quiz only immediately after it is submitted. **You will have an unlimited number of tries for each quiz; only the highest score will be counted.** Due dates and times are posted in the syllabus and software. At the **end of the semester** the lowest 3 homework grades and the lowest 3 quiz grades will **automatically** be dropped. NOTE: You may get help on homework problems, but you will not be given help on quizzes or tests.

STUDY PLAN: The study plan is **due by 2pm on Friday 5/1** (last day of final exams). It indicates topics not mastered on quizzes for the semester. Please use it as a way to study for each test and your final exam. **The study plan counts as much as one test grade.**

TESTS: Tests must be taken in the MTLC by the scheduled deadlines posted on the front page of this syllabus. You must register for a time to take your tests on your scheduled test days. The dates and times for online registration are shown on the front page of this syllabus. Instructions for registration are in Test Rules below. **You may take any test early (before its deadline week).**

REPLACEMENT POLICY: For all students, the lowest test grade will automatically be replaced with the grade made on the final exam if it improves the student’s course grade. However, test grades penalized due to academic misconduct will not be replaced.

MAKE-UP POLICY: Missed assignments will be scored zero. **No makeup tests will be given.**

- If homework or quizzes are missed due to any circumstance, the zero scores will be part of your three dropped homeworks or quizzes at the end of the semester.
- If a test is missed due to any circumstance, **no makeup test will be given.** The zero score will be considered your lowest and will be replaced by the final exam score. **Only one** zero test score may be replaced.
- Students who will miss any assignments due to official University business must make other arrangements **beforehand.**

DISABILITY STATEMENT: Students with disabilities must be registered with the Office of Disability Services (ODS) before receiving any special academic accommodations. If you have a disability, but have not yet contacted ODS, please call 348-4285 or visit 133-B Martha Parham Hall East to make an appointment to register for services. ODS will provide packets of information about your specific accommodations, which you must distribute to **your instructors and to the MTLC (B1 Tutwiler).** **The MTLC must receive your paperwork at least one week prior to a test to allow for accommodations on that test.** Students must bring their paper work each semester.

CODE OF ACADEMIC CONDUCT: All students in attendance at the University of Alabama are expected to be honorable and to observe standards of conduct appropriate to a community of scholars. The University expects from its students a higher standard of conduct than the minimum required to avoid discipline. Academic misconduct includes all acts of dishonesty in any academically related matter and any knowing or intentional help or attempt to help, or conspiracy to help, another student. The Academic Misconduct Disciplinary Policy will be followed in the event of academic misconduct.

MTLC RULES

1. The MTLC is a math classroom. Please be quiet during your visit to the MTLC.

2. Food, drinks without tight-fitting lids, tobacco products, companions, and talking on your phone are NOT allowed in the MTLC.
3. Other than mathematics, no activities such as talking, surfing the Internet, playing computer games, typing a paper, sleeping, etc. are allowed in the MTLC. If these activities are observed, you will be asked to leave the MTLC.
4. Please do not hesitate to ask questions in the MTLC. **Staff members in the MTLC are there to help you.**

TEST RULES

All tests must be taken in the MTLC.

1. There are four 70-minute tests and a 150-minute mandatory, comprehensive final exam. Test dates are listed on the front page of the syllabus.
2. You may take your tests early: “Early” means **before the week of your test**. No registration is needed for early tests. You may not begin a test if the MTLC is scheduled to close before the end of your full allotted time: usually you must begin by 4:45pm Mon – Thursday, or by 3pm on Friday (2pm for a final exam).
3. **You must register for a time to take an exam on a test deadline day.** The front page of the syllabus lists beginning and ending dates/times for online registration for each exam. To register online, go to the MTLC website (www.mtlc.ua.edu), select link *Test Registration*, log in as instructed, select link *Register*, then choose an available time. You will take ALL tests at this same time on their scheduled days. A separate online registration will occur for the Final Exam. You may freely cancel or change your test time while online registration is open. Be sure to verify your registration: log back in to the test registration site.
4. **If you miss a test**, your zero score will be considered your lowest and may be replaced by your final exam score. However, only one zero test score may be replaced.
5. Arrive on time for your test. Tardiness will cost you working time on the test. Bring your ID and pencils with you. Follow the signs to the back hallway. Staff will check your ID and give you a personalized test paper (which is your initial scratch paper), then direct you to your seat. No calculator help will be given during testing.
6. The **Casio FX-260-Solar School** scientific calculator is the **only** hand-held electronic device allowed during testing. All calculator covers must be removed and put out of sight during testing. Use of any unapproved electronic device during a test will be treated as academic misconduct.
7. Cellphones must be turned completely off and placed with all other belongings on the floor. As soon as you are seated, you may begin your exam. The MTLC will give you additional scratch paper as needed; no other paper is allowed. When you are finished, bring all your papers to the lab entrance where staff will collect them.
8. You can review your test before you leave the lab. You may **not** write down any information pertaining to test questions to take with you when you leave the MTLC after an exam. You may not share any test information with anyone who hasn’t taken the test. Violators will be charged with academic misconduct.
9. **You may not leave your table during a test without permission.** This includes getting water and using the restroom. Cell phones must be left at the table.
10. Special MTLC Study Hours during test weeks: Monday 8am-10pm, Tuesday – Thursday 9pm-10pm ONLY, Friday 8am-4:45pm. The lab will be closed for studying, and open only for testing during finals week.

SEVERE WEATHER PROTOCOL: In the case of a tornado warning (tornado has been sighted or detected by radar; sirens activated), all university activities are automatically suspended, including all classes and laboratories. If you are in a building, please move immediately to the lowest level and toward the center of the building away from windows (interior classrooms, offices, or corridors) and remain there until the tornado warning has expired. Classes in session when the tornado warning is issued can resume immediately after the warning has expired at the discretion of the instructor. Classes that have not yet begun will resume 30 minutes after the tornado warning has expired provided at least half of the class period remains.

UA is a residential campus with many students living on or near campus. In general classes will remain in session until the National Weather Service issues safety warnings for the city of Tuscaloosa. Clearly, some students and faculty commute from adjacent counties. These counties may experience weather related problems not encountered in Tuscaloosa. Individuals should follow the advice of the National Weather Service for that area taking the necessary precautions to ensure personal safety. Whenever the National Weather Service and the Emergency Management Agency issue a warning, people in the path of the storm (tornado or severe thunderstorm) should take immediate life saving actions.

When West Alabama is under a severe weather advisory, conditions can change rapidly. It is imperative to get to where you can receive information from the [National Weather Service](#) and to follow the instructions provided. Personal safety should dictate the actions that faculty, staff and students take. The Office of Public Relations will disseminate the latest information regarding conditions on campus in the following ways:

- Weather advisory posted on the UA homepage
- Weather advisory sent out through Connect-ED--faculty, staff and students ([sign up at myBama](#))
- Weather advisory broadcast over WVUA at 90.7 FM
- Weather advisory broadcast over Alabama Public Radio (WUAL) at 91.5 FM
- Weather advisory broadcast over WVUA 7. WVUA 7 Storm Watch provides a free service you can subscribe to that allows you to receive weather warnings for Tuscaloosa via e-mail, pager or cell phone. Check <http://www.wvua7.com/stormwatch.html> for details.