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Important Notice:

- Course begins on MUOnline & MyMathLab on **September 8** and ends on **December 18.**

- All exams (except Pre-Exams) will be proctored by a third party online proctoring company called "Respondus" (via a webcam on your own computer) or in person by the instructor in a campus computer lab. Details later in the syllabus. **Another option for high school students is to find a teacher at their school who can proctor their exams. More details later in the syllabus.**

- Students will do homework on MyMathLab. Students will buy a special version of the textbook (details below) that comes with an access code to MyMathLab (use the course code: **aluthge28219**). Students will take exams on Blackboard (MUOnline) via Respondus. More details below.

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Course Title/Number	MTH 127 – College Algebra Expanded – Sec 124– CRN 5115– (5 credits) - **High School Students**
Semester/Year	Fall 2015
Days/Time	Online class. No face-to-face meetings
Location	On the WEB at www.marshall.edu/muonline & www.mymathlab.com
Instructor	Dr. Ari Aluthge (Pronounced: A-luth-gay)
Office	Smith Hall 714
Phone	(304) 696 3050
E-Mail	aluthge@marshall.edu (include your name and "MTH 127 – Online" in the subject line) Prefer to communicate on MUonline (Blackboard) with the "Internal Mail" tool.
Office/Hours	Office hours by appointment only. No scheduled office hours.
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802
	Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description From Catalog: A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, equations and inequalities. Systems of linear equations. PR: ACT Math 19 or ACT Math 20 or MTH099. *5 hours*

Course Objectives:
- To prepare (along with trigonometry) students for a course in calculus.
- To prepare students for science and engineering course.
- To give students a solid understanding of algebra and how it is used.
- To develop facility in using graphing calculators to solve math problems.
- To satisfy the mathematics general education requirement.

Course Contents: Most of the topics from chapters R through 6 in the textbook
● Basic Concepts of Algebra ● Graphs, Functions, and Models ● More on Functions
● Quadratic Functions, equations, and Inequalities ● Polynomial and Rational Functions
● Exponential and Logarithmic functions ● Systems of Equations and Matrices

Learner Outcomes: The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course. Upon completion of this course, students will have an understanding of the concepts of trigonometric functions and their properties. They will be able to apply these concepts to solve real world applications. In particular,

Course Student Learning Outcomes	How students will practice each outcome in this Course	How student achievement of each outcome will be assessed in this Course
Students will employ quantitative and analytical methods to solve problems drawn from basic algebra and geometry.	By reading and studying the textbook, lecture notes, PowerPoints presentations, watching and studying the Video clips available on MUonline.	Weekly homework assignments, unit exams.
Students will solve real-world problems using techniques that employ systems of linear equation or method of variation.	By reading and studying the textbook, lecture notes, PowerPoints presentations, watching and studying the Video clips available on MUonline.	Weekly homework assignments, unit exams.
Students will use symmetry and transformations to create and analyze new functions and their graphs.	By reading and studying the textbook, lecture notes, PowerPoints presentations, watching and studying the Video clips available on MUonline.	Weekly homework assignments, unit exams.
Students will analyze and compare basic algebraic functions as well as exponential and logarithmic functions.	By reading and studying the textbook, lecture notes, PowerPoints presentations, watching and studying the Video clips available on MUonline.	Weekly homework assignments, unit exams.
Students will construct, evaluate, and graph functions to apply in real-word problems.	By reading and studying the textbook, lecture notes, PowerPoints presentations, watching and studying the Video clips available on MUonline.	Weekly homework assignments, unit exams.
Students will demonstrate the ability to work with equations and inequalities symbolically, visually, and numerically.	By reading and studying the textbook, lecture notes, PowerPoints presentations, watching and studying the Video clips available on MUonline.	Weekly homework assignments, unit exams.
Students will apply techniques of systems of linear equations and matrices to solve real world applications.	By reading and studying the textbook, lecture notes, PowerPoints presentations, watching and studying the Video clips available on MUonline.	Weekly homework assignments, unit exams.

Required Texts, Additional Reading, and Other Materials:
- A special three-hole- punched, loose-leaf version of the textbook, , *College Algebra*, Graphs and Models, *5th Edition* (by Bittinger) that comes with an access code to MyMathLab® at www.mymathlab.com or (http://www.pearsonmylabandmastering.com/northamerica/).
- **ISBN:** 9780321845405. More details about MyMathLab® later in the syllabus.
- The book can be ordered online at The Marshall University Bookstore or directly from Pearson publishing at www.pearsonhighered.com. (At MU Bookstore, the book costs about $181 and it costs about $166 from the publisher according to respective websites).
- Students will use the course code: **aluthge28219** and register on MML to do their homework.
- Caution: Please do not buy used books or any other version of the book without MML access code. The MML access code alone can cost over $100.
- Caution: Face-to-face MTH 127 classes on campus use a different textbook. Make sure to buy the correct textbook (with MML access code).
- Recommended: A graphing calculator (will be allowed during tests and homework). Cell phones or any other electronic devices will not be allowed in place of a calculator.
- There is a page containing links to several online guides (on calculators). See the "Online Calculator guides" icon on the home page of the course.
- There is also a page containing some links for online resources. See the "Online Resources" link.

Course Requirements / Due Dates:

1. Course is divided into three units as follows. Each unit is <u>five weeks</u> long.
   - Unit 1 = Chapters R and 1. This unit ends on Sunday, October 18 (11:59 PM)
   - Unit 2 = Chapters 2 and 3. This unit ends on Sunday, November 15 (11:59 PM)
   - Unit 3 = Chapters 4, 5, and 6. Skip sections 4.3, 4.4, 6.3 – 6.8. Unit 3 ends on Friday, Dec 18 (11:59 PM)

2. There is a homework assignment on MyMathLab at the end of each section of the textbook.
   So, in total there are 36 HWs. This means, on average, students must complete <u>three HWs per week</u>.
   The homework deadlines are posted online in the "Semester Schedule" on the homepage of the course.
   There's an Orientation HW on MML to help student learn how to enter answers including graphs. <u>Counts for grade.</u>
   Different HWs have different values ranging from 5 points to 6.5 points. Most HWs are NOT multiple-choice.
   Each HW will have some "media items" such as "video clips" and "PowerPoints". Students must first view those media items before they can answer the real questions. Students will earn points for Media Items.

3. There is a Practice Exam (syllabus quiz) which contains 10 non-math questions about the course. So students must read the syllabus before taking the Practice Exam. Actually, the primary goal of the Practice Exam is to help students become familiar with the test taking process using Respondus and a webcam at home. So the practice exam should be taken on your own computer using Respondus and a webcam.

4. All exams are found in the "Quizzes and Exams" folder on the left column of the homepage of the course.

5. At the end of <u>each unit</u>, there are <u>two exams</u>. They are called Pre-Exam 1 and (real) Exam 1 (after Unit 1), etc.
   For each unit, the Pre-Exam and the (real) Exam are similar (made from the same pool of questions).
   The purpose of the Pre-Exam is to help students prepare for the (real) Exam. They <u>both count</u> for the grade.
   Both Pre-Exam and the (real) Exam ARE multiple-choice. Each contains 21 questions from that unit.

6. Students will take each Pre-Exam on their own computer, directly on Blackboard, <u>without going through</u> Respondus (no proctoring here). After taking each Pre-Exam, students can print a copy of the exam and study (correct their mistakes) to prepare for the (real) Exam.

7. To print any Pre-Exam (after the student has taken and "submitted" it), go to "My Grades", click on the particular Pre-Exam, and then click on the grade (score) for that exam. It will open the Pre-Exam student took.

8. But students must go through Respondus Lockdown Browser to take each (real) Exam.
   - At home, students can download Respondus Lockdown Browser. Students will also need a webcam. Details are given in a separate file on the home page under the title "Taking Exams at Home (Proctored)"
   - But students can also come to campus and take each (real) Exam in a computer lab where the instructor will proctor the exam. One three-hour period will be available for each exam. Details are given in a separate file on the homepage under the title "Taking Exams on Campus (Proctored)".
   - Another option for students is to arrange (at their own cost) to take the exams at a place like a "Sylvan Center" in their area. Must obtain the instructor's permission for this.
   - Deadlines for Pre-Exams and (real) Exams are given in the "Semester Schedule" file.

9. There will be NO comprehensive final exam. Exam 3 is the last exam of the class.

Grading Policy:

1. Homework assignments (including Orientation HW) are worth 205 points.
   On MML, HW scores will range from 50 to 65 points. But those scores will be divided by 10 before copying to Blackboard. So on Blackboard, HW grades will range from 5 to 6.5 points. Orientation HW = 1.3 points.
2. For each unit, Pre-Exam = 21 points (1 pt for each question) and (real) Exam = 84 points (4 pts for each question). Total for two exams for each unit = 105 points. Total for all exams for three units = 315 points.
3. The Practice Exam (Syllabus quiz) = 5 points (0.5 point for each question).
4. Total possible points = 525 (205 + 5 + 315)
5. Letter grades: A = 450 – 525,   B = 400 – 449,   C = 350 – 399,   D = 300 – 349,   F = 0 - 299

Attendance Policy: There's NO attendance requirement for this class. This is a 100% online class. Students will learn material on their own. But if students have any questions, they must contact the instructor for help.

Technical Requirements:

For minimum hardware/software requirements please see:
http://www.marshall.edu/muonline/computer_requirements.asp

Be sure to run the free web browser tune-up:
http://www.marshall.edu/muonline/hardwaresoftwarecheck.asp

You will need to have several plug-ins (software) installed on your computer. These plug-ins are all free. You will need **Real Player** and **Flash Player** to experience the streaming video and audio clips that are part of the course. You can easily check your computer to see if you have these programs (and if you don't install them for free), by clicking on this link: http://www.marshall.edu/muonline/computer_requirements.asp

If you have technical problems, please go to the Help Desk:
http://www.marshall.edu/ucs/cs/helpdesk/

FAQ – Frequently Asked Questions
http://www.marshall.edu/muonline/technicalfaq.asp
Students will need a webcam for their computer if they decide to take the tests on their own computer. (But they can come to campus and take the test on a campus computer in a computer lab). Students will need to download Respondus Lockdown Browser.

Marshall University Computer HELP DESK PHONE NUMBERS:
(304) 696-3200 (Huntington, WV), (304) 746-1969 (Charleston, WV), (877) 689-8638 (Toll free)

Some Helpful Hints:
- **For each section, I have included the following in separate files in this order:**
    - Detailed lecture notes with hundreds of worked out problems.
    - A PowerPoint presentation.
    - A page containing a video link or playlist (for most sections)
      (If you have difficulty with videos, please contact me)
    - Solutions to exercise problems #3, 7, 11, etc.
    - PowerPoint presentations and videos are also available on MyMathLab
      and students are required to view these media as a part of their homework.

- **I suggest the following approach:**
    - Read the syllabus and take the syllabus quiz on Blackboard (counts for the grade)
    - The course is divided in to three units. Each unit consists of several chapters.
    - Begin reading the text for each section of the textbook.
    - Next read my lecture notes including worked out examples.
    - Then view the PowerPoint presentation.
    - Next go and view the video (if there is a video for that section)
    - Do the HW on MML (http://www.pearsonmylabandmastering.com/northamerica/. Course code: **aluthge28219**
    - If you need to study more, check the online resources page from the home page.
    - Take the "MTH 127 Practice Exam (Syl Quiz)" to become familiar with test taking process before taking Pre-Exam 1
    - At the end of each unit, take the unit exam on Blackboard (proctored by via a webcam).
      But students can also take the exam by coming to a campus computer lab. Details below.
    - There's NO comprehensive final exam for this class. Exam 3 is the last exam. Class ends December 11.

- **Getting Help From The Instructor:**
    - If you need help, please do not hesitate to contact me.
    - It is my job to help my students. But you have to ask, if you need help.
    - Contact me through "Internal Mail", or at aluthge@marshall.edu or (304) 696 3050.

<p style="text-align: center; color: red;">MyMathLab Instructions</p>

To register for Fall 2015 - MTH 127 - Section 124 (Aluthge) on :

1. Go to www.pearsonmylabandmastering.com
2. Under Register, click **Student**.
3. Enter your instructor's course ID: aluthge38304, and click **Continue**.

Please understand that there are so many math courses registered under my name "aluthge" on MyMathLab. So be careful and make sure to enter the correct course code **aluthge28219** and register for the correct course.

4. Sign in with an existing Pearson account or create an account:
- If you have used a Pearson website (for example, MyMathLab, or MyPsychLab), enter your Pearson username and password. Click **Sign in**.
- If you do not have a Pearson account, click **Create**. Write down your new Pearson username and password to help you remember them.

5. Select an option to access your instructor's online course:
- Use the access code that came with your textbook or that you purchased separately from the bookstore.
- If not, buy access using a credit card or PayPal. Actually, just the MML access code may be sufficient. Once you are on MML, you have access to Textbook pages, Videos, and PowerPoints. You are supposed to view those media as a part of each homework. Those things and detailed lecture notes are provided on MUonline also.
- If available, get 14 days of temporary access (Look for a link near the bottom of the page).

6. Click **Go To Your Course** on the Confirmation page. Under MyLab & Mastering New Design on the left, click **Fall 2015 - MTH 127 - Section 124 (Aluthge)** to start your work.

Retaking or continuing a course?

If you are retaking this course or enrolling in another course with the same book, be sure to use your existing Pearson username and password. You will not need to pay again.

To sign in later:

1. Go to www.pearsonmylabandmastering.com
2. Click **Sign in**.
3. Enter your Pearson account username and password. Click **Sign in**.
4. Under MyLab & Mastering New Design on the left, click

   Fall 2015 - MTH 127 - Section 124 (Aluthge) to start your work.

5. **Do the Orientation HW**: Please do this first to learn how to enter your answers including graphs.

Additional Information:

See **Students** > **Get Started** on the website for detailed instructions on registering with an access code, credit card, PayPal, or temporary access.

Notes:
- Students will have unlimited time and unlimited number of attempts on each HW (as long as they finish the HW by the deadline and before it is closed).
- I am leaving HW open for the entire five-week period for each unit. The penalty below will apply only during the last week of each unit. See the "semester schedule" for more details.
- During the penalty period, the point value students can earn will decrease by 3% per day. This applies only for the questions student attempt after the original due date.

Using LockDown Browser and a webcam (Respondus Monitor) for Online Exams:

- This course requires the use of LockDown Browser for taking online exams.
- The computer used for taking exams must also have a built-in or external webcam.
- The LockDown Browser software prevents a user from accessing other applications or going to other websites during an exam.
- The webcam (sometimes called Respondus Monitor) records you during the exam to ensure you're only using resources that are permitted.
- Together, these tools make it possible for students to take online exams from any location, and at times that are convenient.
- It also creates a fair testing environment for everyone in the course.
- **Watch the following video for more information:** Overview for Students (video)
- You will need to download and install LockDown Browser to your computer and use it to take tests (instead of using your normal browser.) The download URL is: http://www.respondus.com/lockdown/installinfo.pl?ID=323615594 See the video under "Additional Resources" below for instructions for downloading.
- **Caution: Don't download a copy of LockDown Browser from elsewhere on the Internet; those versions won't work for Marshall University.**
- **Review this list before taking an exam with LockDown Browser and Respondus Monitor:**
    - Ensure you are in a location where you won't be interrupted
    - Turn off all mobile devices, phones, etc.
    - Clear your desk of all external materials – books, papers, other computers, or devices
    - No one else should be in the room with you
    - Remain at your desk or workstation for the duration of the test
    - Start LockDown Browser. Select the first option "Blackboard Learn Production" from the dropdown menu. It will take you to Blackboard (MUonline) page. Log onto MUonline. Then select this course and the exam you are taking. Click "BEGIN". Then select the first option (Taking the exam using a webcam). Then follow the instructions. The second option is if you are taking the exam in a lab.
    - If an interruption occurs during the exam, explain what happened by speaking directly to your webcam
    - You cannot exit the exam until all questions are completed and submitted for grading.
    - **Practice Exam (Syllabus Quiz):**
      Please take the "MTH 127 Practice Exam (syllabus quiz)" to become familiar with test taking process before taking Pre-Exam 1 and Exam 1. It contains 10 questions about the course from the syllabus.
- **Additional Resources:**
    - (pdf) Student Quick Start Guides
    - (video) How to Download & Use LockDown Browser

Campus Computer Lab Schedule For Exams:
Since high school students may not be able to come to campus to take exams in a lab, this option may not work for them. BUT if a student wants to take exams in a campus lab, he/she can contact me.

Taking exams at their own high school:
If a student does not want to take exams using Respondus on their own computer, he/she may ask a teacher at the school to proctor his/her exams. In that case the student must provide Dr. Aluthge with the name and the contact information (including phone) of the teacher who will proctor the exams (by Sep 18).

2015 Fall Semester Schedule – MTH 127 (for Homework on MyMathLab and Exams on Blackboard)

Homework or Exam	Open at 12:00 AM on		Due: by 11:59 PM on / Earn 100% of possible points on HW	Close (late due HW) at 11:59 PM on (HW)-3% a day penalty during this period
Orientation HW	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
Practice Exam & Syllabus quiz	Take the MTH 127 Practice Exam to become familiar with test taking using Respondus by Oct 11, 11:59 PM. It contains 10 non-math questions related to the course from the syllabus. Counts for grade (5 points)			
Unit 1 (Chapters R & 1) work starts here.				
HW R.1	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW R.2	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW R.3	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW R.4	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW R.5	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW R.6	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW R.7	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW 1.1	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW 1.2	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW 1.3	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW 1.4	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW 1.5	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
HW 1.6	Saturday, September 5, 2015		Sunday, October 11, 2015	Sunday, October 18, 2015
Pre Exam 1	Opens: Aug 22	Closes Oct 11	Take at home directly on Blackboard by Oct 11. Good practice for (real) Exam 1. 21 points	
(real) Exam 1	Opens: Aug 22	Closes Oct 18	Take via Respondus at home by Oct 18 or at your HS (proctored by a teacher). 84 points	
Unit 1 work ends here. And Unit 2 (Chapters 2 & 3) starts here.				
HW 2.1	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 2.2	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 2.3	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 2.4	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 2.5	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 2.6	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 3.1	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 3.2	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 3.3	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 3.4	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
HW 3.5	Saturday, October 3, 2015		Sunday, November 8, 2015	Sunday, November 15, 2015
Pre Exam 2	Opens: Sep 26	Closes Nov 8	Take at home directly on Blackboard by Nov 8. Good practice for (real) Exam 2. 21 points	
(real) Exam 2	Opens: Sep 26	Closes Nov 15	Take via Respondus at home by Nov 15 or at your HS (proctored by a teacher). 84 points	
Unit 2 work ends here. And Unit 3 (Sec 4.1, 4.2, 4.5, 4.6, Chapter 5 & Sec 6.1, 6.2)) starts here.				
HW 4.1	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 4.2	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 4.5	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 4.6	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 5.1	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 5.2	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 5.3	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 5.4	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 5.5	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 5.6	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 6.1	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
HW 6.2	Saturday, October 31, 2015		Sunday, December 13, 2015	Friday, December 18, 2015 [last day]
Pre Exam 3	Opens: Oct 24	Closes Dec 13	Take at home directly on Blackboard by Dec 13. Good practice for (real) Exam 3. 21 points	
(real) Exam 3	Opens: Oct 24	Closes Dec 18	Take via Respondus at home by Dec 18 or at your HS (proctored by a teacher). 84 points	
Final Exam?	NO comprehensive final exam here. Exam 3 is the LAST exam. Semester ends on December 18, 11:59 PM.			
Please print and post this schedule near your desk or download it to your smart phone or tablet or laptop or desktop.				