



\*\*See Disclaimers Below Lesson Plan\*\*

# MATH 1111 / College Algebra COURSE SYLLABUS Web-Enhanced Fall Semester 2016

**Semester:** 201712 Fall 2016  
**Course Title:** College Algebra  
**Course Number:** MATH 1111  
**Credit Hours/ Minutes:** 3 / 2250  
**Class Location:** Building 6/Room 6218  
**Class Meets:** 8:00-9:15 TR  
**CRN:** 20026

**Instructor:** Sonya Wilson  
**Office:** 1:30-5:30 MTWR  
**Office Location:** Office 6218, Building 6, Swainsboro  
**Email Address:** [swilson@southeasterntech.edu](mailto:swilson@southeasterntech.edu)  
**Phone:** 478.289.2298  
**Fax Number:** NA  
**Tutoring Hours:** 1:30-2:30 T, or by Appointment

Students are encouraged to use the math classroom computers whenever classes are not in session. MathXL will require the use of the internet often. The college computers are available for your use.

**REQUIRED TEXT:** Blitzer, Robert R. (2014). College Algebra (6<sup>th</sup> edition). Boston: Pearson Education, Inc. This textbook package includes the required text, the MATHXL Access Code, and the Student Solutions Manual. (A digital copy of the text is available in MathXL. The digital copy includes each chapter with examples with no end of chapter exercises or text answer key.)

A Mathxl Access Code is required. The Mathxl Access Code is packaged with the text from the bookstore, or it can be purchased separately from the bookstore, or it can be purchased online at [www.mathxl.com](http://www.mathxl.com). Directions to register for Mathxl, including a Mathxl Course ID #, are included in your Blackboard Course under the **Math Work / MathXL Section** on the course menu. Students who have a non-expired Mathxl Account, may skip registration, login as usual, and use the new Course ID # to enroll in the new course.

**REQUIRED SUPPLIES & SOFTWARE:** Supplies: 3-ring binder notebook, computer access, loose-leaf paper, pencils, notebook, highlighter, graphing calculator (TI-83 or 84 preferred), and graph paper. Required Software: Mathxl Access Code. Additional Requirements: Daily, MTWR, access to a reliable internet connection for use with Blackboard, Mathxl, mySTC, and college email.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**CALCULATOR USAGE:** The use of cell phones or other internet capable devices are not allowed for calculator usage. Students are expected to bring a calculator appropriate for the course content each day of class. If calculator usage is not allowed for some topics, students are required to adhere to those expectations.

**COURSE DESCRIPTION:** This course emphasizes techniques of problem solving using algebraic concepts. Topics include: fundamental concepts of algebra; equations and inequalities; functions and graphs; systems of equations; and optional topics including sequences, series, and probability; and analytic geometry.

**MAJOR COURSE COMPETENCIES:** Topics include: fundamental concepts of algebra; equations and inequalities; functions and graphs; systems of equations; optional topics including sequences, series, and probability; and analytic geometry.

**PREREQUISITE(S):** Appropriate Degree Level Math Placement Test Score

**COURSE OUTLINE:**

1. Fundamental Concepts of Algebra
2. Equations and Inequalities
3. Functions and Graphs
4. Systems of Equations
5. Optional Topics including Sequences, Series, Probability, and Analytical Geometry

**GENERAL EDUCATION CORE COMPETENCIES:** STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

**STUDENT REQUIREMENTS (Web-Enhanced – Sonya Wilson):** Students are expected to keep assigned work in a notebook and pass competency tests at scheduled times. Students are also expected to do all homework and assignments as scheduled and are expected to have all supplies and access to software required by the course syllabus. Some courses may be web-enhanced and require the use of Blackboard, textbook websites, or textbook software. Quizzes and homework grades may be given at any time without prior notice, and makeups or late work on these assessments may or may not be accepted upon the discretion of the instructor. Students are expected to show high-quality, detailed work and/or explanations when completing all assignments. (A software program called MathXL is required. Students meet these requirements by completing Mathxl homework, quizzes, and by using Mathxl homework tutorial features such as the videos, Study Plan, View an Example button, etc... Campus computers are available for use for students who do not have proper access at home. Students are expected to use home computers, the Math Classroom or other labs on campus to complete MathXL assignments.)

**ATTENDANCE GUIDELINES:** Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of F and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an F in a course.

**WITHDRAWAL PROCEDURE:** Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

**Remember** - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

**ACADEMIC ENGAGEMENT REWARD (Web-Enhanced Math – Sonya Wilson):** Students who are academically engaged **each week** will receive a reward to replace a low test grade in the 50% category of the grading policy. To achieve this reward for Sonya Wilson's Web-Enhanced Math Class:

- Students must attend 90% of the scheduled class meetings. We meet 30-31 times. Students must attend 26 full class days to achieve the reward. 3 tardies = an absence. 3 early departures = an absence. Tardiness/departures over 10 minutes will be counted by minutes towards an absence.

Students who meet the academic engagement expectation will be allowed to replace their lowest, 50% category, competency test grade with their final exam grade. The replaced grade will be a competency exam (chapter test grade) and will not include such items as a mid-semester exam, final exam, or a proctored online exam. If the final exam grade is lower than the lowest competency test grade, then the final exam will not be used as a replacement grade and the lowest competency test grade will be left in place. Students who receive their lowest test score due to cheating are not eligible for the attendance reward. **This is a great reward to work for! It can have a very positive effect on most averages. All it takes is a steady weekly commitment to do all assignments.**

**SPECIAL NEEDS:** Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), to coordinate reasonable accommodations.

**SPECIFIC ABSENCES:** Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

**PREGNANCY:** Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu).

**MAKEUP GUIDELINES (Tests, quizzes, homework, projects, etc...):** Failure to take tests on the scheduled day will result in a grade of zero for the test not taken. No Make-up tests will be given, but an attendance reward will be given for applicable competency exams. (See the Attendance Reward for the specifics.) A grade of zero may be assigned for any quiz that is missed or homework that is not turned in as scheduled. Some instructors may allow a "one-class day" late deadline for an assessment scheduled outside of class time that has a due date. In this case, the highest allowed will be a grade of 80.

**ACADEMIC DISHONESTY POLICY:** The STC Academic Dishonesty Policy states *All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline.* The policy can also be found in the *STC Catalog and Student Handbook*.

### **Procedure for Academic Misconduct**

The procedure for dealing with academic misconduct and dishonesty is as follows:

#### **--First Offense--**

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program

files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

**--Second Offense--**

Student is given a grade of "WF" for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

**--Third Offense--**

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

**STATEMENT OF NON-DISCRIMINATION:** Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era or citizenship status, (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

**GRIEVANCE PROCEDURES:** Grievance procedures can be found in the Catalog and Handbook located on STC's website.

**ACCESS TO TECHNOLOGY:** Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the STC website at [www.southeasterntech.edu](http://www.southeasterntech.edu).

**GRADING POLICY**

15% Homework  
10% Quizzes  
50% Tests  
25% Comprehensive Final

**GRADING SCALE**

A: 90-100  
B: 80-89  
C: 70-79  
D: 60-69  
F: 0-59

**TCSG GUARANTEE/WARRANTY**

**STATEMENT:** *The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

**15% Homework Category (MATH 1111):** The homework average will be updated and displayed in Blackboard after major due dates – usually after test dates. Individual homework grades will be recorded in mathxl. The individual homework grades will consist of homework given in the mathxl program as well as several off-line homework assignments that may be required by your instructor. An *off-line homework assignment* is one that is done outside of the mathxl environment. The additional off-line homework grades will still be recorded in mathxl so they can be included in the overall homework average that will be transferred to the Blackboard Gradebook. (Note: The Blackboard Gradebook is a tool that acts as a spreadsheet that averages your grades according to the categories noted above.)

**10% Quizzes Addendum:** The quiz average will be updated and displayed in Blackboard after major due dates. Individual quiz grades will be recorded in mathxl. The individual quiz grades will consist of quizzes

given in the mathxl program as well as several off-line quizzes that may be required by your instructor. An off-line quiz is a traditional handwritten quiz or a quiz that is done outside of mathxl. The additional off-line quizzes will be recorded in mathxl so they can be included in the overall quiz average that will be transferred to the Blackboard Gradebook.

**50% Test Addendum: (Web-Enhanced):** You may have a combination of traditional class tests and online tests. [The testing methods will be at the discretion of your instructor.](#) Many of the online tests will have a Part 1 in Mathxl and a Part 2 during class. The Part 2 section of the test will be given in a controlled environment to validate that the student can do the required material without external resources. Each problem on Part 2 will either increase the Part 1 grade or reduce the Part 1 grade. (An example is as follows: Part 2 may have 5 problems. The student will lose 10 points for each incorrect answer and will gain 1 bonus point for each correct answer. Students who are absent, for any reason, will lose all the points. The amount of problems and points will vary per test. The official grade of the test will be documented in Blackboard.) (Another method that may be used is to average Part 1 and Part 2. Part 2 will usually be much shorter than Part 1.)

**Note about Mathxl:** Mathxl is a valuable tool that can greatly enhance your learning of the material. In addition, Mathxl will increase your ability to work in the online environment which is in high demand in today's workforce. 25% (75% including tests) of your grades are weighed heavily by your use of mathxl. Please take your mathxl assignments seriously because 25% (75% including tests) can greatly help or hurt your final average.

**Note about not giving up:** A few bad grades is never a good reason to give-up. Giving up results in an F whereas trying usually results in an A, B, C, or D --- all of which are better than an F. Most students are able to turn things around after a few bad grades if they just try. Always take time to discuss things with your instructor. We have to learn to overcome bad circumstances and not run away from them. It is usually easier to turn things around than you think.

**How many hours per week should I expect this course to take me? (15 week semester)** Students should expect the course to take a minimum of 2 or 2.5 times the contact hours to complete the lecture material, homework, quizzes, tests, and study time. For this class, 2.5 hours class time per week X 2.5 = a minimum of 6.25 hours per week. (Experts say that a 3 semester hour class should take around 6-9 additional hours per week for the semester.) Therefore, students should work several days per week to learn and complete the material. **For a 9 week semester**, students should expect the course to take a minimum of 4.167 hours class time per week X 2.5 = a minimum of 10.4 hours per week.

**Are you feeling overwhelmed as you read all your course expectations for each class?** That is a natural reaction at the beginning of the semester. Just listen to and communicate with your instructors and classmates. Take time to become organized in each class, and it will all come together soon. Your instructors want you to be successful.

**MATH 1111 HOMEWORK GUIDE AND LESSON PLAN – Subject to changes and updates**  
**College Algebra, 6<sup>th</sup> Edition**  
**Web-Enhanced**

<p><b>HOURS/MINUTES</b> 2250 min = 37.5 instructional hours</p> <p>37.5 X 2.5 = ~93.75 additional learning hours needed for the semester</p>	<p><b>CHAPTER/UNIT</b></p>	<p><b>OBJECTIVES</b></p>	<p><b>ASSIGNMENTS</b></p> <p align="center"><b>(Specific Due Dates will be tentative due to unexpected daily events.)</b></p>	<p><b>COMP.</b></p>
<p><b>1-5 Instructional Hours</b></p> <p><b>(Chapter P: 5 X 2.5 = +/-12.5 more working hours may be required to complete and learn all expectations for Chapter P.</b></p>	<p>Chapter P Fundamental Concepts of Algebra</p>	<p>P.1: Algebraic Expressions, Mathematical Models, and Real Numbers P.2: Exponents and Scientific Notation P.3 Radicals and Rational Exponents P.4: Polynomials P.5: Factoring Polynomials P.6: Rational Expressions</p>	<p><b>Mathxl:</b> Register for Mathxl and complete the Chapter P Assignments found under the Homework and Tests Button.</p> <p><b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book. Having a hard copy book to take with you when you are offline for studying is of great value too.</p> <p><b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b></p>	<p>1,2 *a,b,c</p>
<p><b>6-9</b></p>	<p>1 Equations and Inequalities</p>	<p>1.1: Graphs and Graphing Utilities 1.2: Linear Equations and Rational Equations 1.3: Models and Applications 1.4: Complex Numbers (opt) 1.5: Quadratic Equations 1.6: Other Types of Equations (opt) 1.7: Linear Inequalities and Absolute Value Inequalities (opt)</p>	<p><b>MATHXL:</b> Do the Ch. 1 Mathxl Requirements</p> <p><b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book.</p> <p><b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b></p>	<p>2,3 *a,b,c</p>
<p><b>10-13</b></p>	<p>2 Functions and Graphs</p>	<p>2.1: Basics of Functions and their Graphs 2.2: More on Functions and their Graphs 2.3: Linear Functions and Slope 2.4: More on Slope 2.5: Transformation of Functions 2.6: Combinations of Functions; Composite Functions 2.7: Inverse Functions 2.8: Distance and Midpoint</p>	<p><b>MATHXL:</b> Do the Ch. 2 Mathxl Requirements</p> <p><b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book.</p> <p><b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when</p>	<p>1, 3 *a,b,c</p>

		Formulas; Circles	the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b>	
<b>14-17</b>	3 Polynomial and Rational Functions	3.1 Quadratic Functions 3.2: Polynomial Functions and Their Graphs 3.3: Dividing Polynomials: Remainder and Factor Theorems 3.6: Polynomial and Rational Inequalities 3.7: Modeling Using Variation	<b>MATHXL:</b> Do the Ch. 3 Mathxl Requirements  <b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book.  <b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b>	3 *a,b,c
<b>18-23</b>	4 Exponential and Logarithmic Functions	4.1: Exponential Functions 4.2: Logarithmic Functions 4.3: Properties of Logarithms 4.4: Exponential and Logarithmic Equations 4.5: Exponential Growth and Decay: Modeling Data	<b>MATHXL:</b> Do the Ch. 4 Mathxl Requirements  <b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book.  <b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b>	1,3,5 *a,b,c
<b>24-28</b>	5 Systems of Equations and Inequalities	5.1: Systems of Linear Equations in Two Variables 5.2: Systems of Linear Equations in Three Variables 5.4: Systems of Nonlinear Equations in Two Variables 5.5: Systems of Inequalities	<b>MATHXL:</b> Do the Ch. 5 Mathxl Requirements  <b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book.  <b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b>	2,4 *a,b,c
<b>29-33</b>	6 Matrices and Determinants	6.3: Matrix Operations and Their Applications 6.5: Determinants and Cramer's Rule	<b>MATHXL:</b> Do the Ch. 6 Mathxl Requirements  <b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of	4,5 *b,c

			the book. <b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b>	
<b>34-35</b>	7 Conic Sections (Optional per discretion of instructor)	7.1: The Ellipse 7.2: The Hyperbola 7.3: The Parabola	<b>MATHXL:</b> Do the Ch. 7 Mathxl Requirements  <b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book.  <b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b>	5 *b,c
<b>36-37.5</b> <b>Instructional hours</b> <b>(X 2.5 for additional learning requirements)</b>	8 Sequences, Induction, and Probability (Optional per discretion of instructor)	8.1: Sequences and Summation Notation	<b>MATHXL:</b> Do the Ch. 8 Mathxl Requirements  <b>Textbook Homework:</b> The digital version of the textbook does not include the text exercises. Students with a hard copy text can benefit greatly by practicing and checking odd problems in the back of the book.  <b>ADDITIONAL:</b> Your <u>course calendar</u> or instructor will detail how and when the following items are due. <b>Homework</b> <b>Objective Quiz(zes)</b> <b>Competency Test(s)</b>	5 *b,c
	<b>Final Exam</b>		<b>Final Exam</b>	
Students who will be graduating this semester should meet with their advisor to ensure all graduation requirements have been met.				

<b>COURSE OUTLINE:</b> 1. Fundamental Concepts of Algebra 2. Equations and Inequalities 3. Functions and Graphs 4. Systems of Equations 5. Optional Topics including Sequences, Series, Probability, and Geometry	<b>**General Core Educational Competencies</b> a) The ability to utilize standard written English.(i.e. Explanations of answers, Writing Problems) (Online: Weekly Blackboard Summaries, Discussion Boards.) b) The ability to solve practical mathematical problems. (i.e. Entire Course) c) The ability to read, analyze, and interpret information. (i.e. Entire Course, Applications)
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**\*\*Disclaimer Statements\*\***

**\*\*\*Instructor reserves the right to change the syllabus and/or lesson plan as necessary.\*\*\***

**\*\*\*The official copy of the syllabus is located inside the student's online course shell or will be given during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.\*\*\***

**Tutoring: Please see your instructor to arrange tutoring times, see the day instructor, or see the Vidalia instructors. In addition, MathXL is a rich tutorial system by using the Study Plan, the videos, and the buttons inside homework. Keep a well-organized notebook when doing online work in MathXL.**