



**MATH 1012-Foundations of Mathematics**  
**COURSE SYLLABUS**  
**Online**  
**Spring Semester 202114**

**COURSE INFORMATION**

Credit Hours/Minutes: 3 / 2250

Campus/Class Location: Georgia Virtual Technical Connection (GVTC)/Blackboard

Class Meets: Via Internet for \_\_15\_\_ weeks

Course Reference Number (CRN): 40207

Preferred Method of Contact: College Email [Don Davis \(ddavis1@southeasterntech.edu\)](mailto:ddavis1@southeasterntech.edu)

**INSTRUCTOR CONTACT INFORMATION**

**Instructor Name:** Mr. Don Davis

**Email Address:** [Don Davis \(ddavis1@southeasterntech.edu\)](mailto:ddavis1@southeasterntech.edu)

**Vidalia/Office Location:** Vidalia Main Building Room 409

**Office Hours:** Blackboard Collaborate On Line Classroom 3:00-4:00 pm, MR- Monday, Thursday or by Appointment

**Phone:** 912-538-1957

**Fax Number:** 912-538-3156

**Tutoring Hours:** Blackboard Collaborate On Line Classroom 3:00-4:00 pm, MR-Monday, Thursday or by Appointment

**SOUTHEASTERN TECHNICAL COLLEGE (STC) CATALOG AND HANDBOOK**

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook \(https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf\)](https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf).

**NO REQUIRED TEXT**

The course uses the text: Bittinger, Marvin L. Basic College Mathematics (12<sup>th</sup> edition): Boston: Pearson Education, Inc. (The 11<sup>th</sup> edition of the text may also be used.)

**REQUIRED SUPPLIES & SOFTWARE**

Software: MathXL is the software required for the course. The student must first purchase a MathXL access code and then must use the MathXL Course ID to register for the class. The MathXL Access Code may be purchased from the STC bookstore or from the [MathXL Website \(www.mathxl.com\)](http://www.mathxl.com). The student will be given instructions to register for MathXL in Blackboard. The student will need to register for MathXL by obtaining the MathXL Course ID from the menu in their Blackboard course.

Supplies: Three (3) ring binder notebook, computer access, loose-leaf paper, pencils, highlighter, scientific calculator (TI-30XIIS recommended). Cellphones or other electronic devices cannot be used in the course. Daily, Monday through Thursday, access to a reliable internet connection for use with Blackboard, MathXL, mySTC, and Student 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 Georgia Virtual Technical Connection (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.

**Students should not share login credentials with others and should change passwords periodically to maintain security.**

## **COURSE DESCRIPTION**

**MATH 1012 - Foundations of Mathematics** (3 credit hours, 2250 minutes)

Emphasizes the application of basic mathematical skills used in the solution of occupational and technical problems. Topics include fractions, decimals, per-cents, ratios and proportions, measurement and conversion, formula manipulation, technical applications, and basic statistics.

## **MAJOR COURSE COMPETENCIES**

Topics include: Fractions, decimals, per-cents, ratio and proportion, measurement and conversion, formula manipulation, technical applications, and basic statistics.

## **PREREQUISITE(S)**

STC Admission.

## **COURSE OUTLINE**

1. Fractions
2. Decimals
3. Ratios and Proportions
4. Per-cents
5. Measurement and Conversion
6. Geometric Concepts
7. Technical Applications
8. Basic Statistics

## **GENERAL EDUCATION CORE COMPETENCIES**

Southeastern Technical College 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 (ONLINE)**

Students are expected to complete all work required by the instructor. Students must register/enroll in Mathxl during the first days of class and use the Mathxl Software to successfully complete the course. Students will be No Showed who do not register for Mathxl by the end of the 3<sup>rd</sup> day of the semester. (To secure the proper information to access Mathxl, first login to our Blackboard course and go to the menu item titled as **Math Work / MathXL.**)

Quizzes, tests, and homework grades may be given at any time without prior notice, when needed, but most will be scheduled as part of the class. **Failure to adhere to due dates will result in a grade of zero.**

Students are expected to prove weekly academic engagement by meeting assignment deadlines each week and spending a minimum of 60 hours during the semester doing the required homework, quizzes, and tests. Students are expected to communicate frequently through college email, discussion boards and Blackboard Collaborate on line classroom sessions. College email is accessed at <https://portal.office.com>, under Quick links on our webpage, or in the menu of your Blackboard course.

### **COVID-19 MASK REQUIREMENT**

Masks or face coverings must be worn at all times while on the campus of Southeastern Technical College. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC). A student's refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

### **COVID-19 SIGNS AND SYMPTOMS**

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician's office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

<b>COVID-19 Key Symptoms</b>
Fever or felt feverish
Cough: new or worsening, not attributed to another health condition
Shortness of breath, not attributed to another health condition
New loss of taste or smell
Chills; Repeated shaking with chills
Sore throat, not attributed to another health condition
Muscle pain, not attributed to another health condition or exercise
Headache, not attributed to another health condition
Diarrhea (unless due to known cause)
<b>In the past 14 days, if you:</b>
Have had close contact with or are caring for an individual diagnosed with COVID-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s).

### **COVID-19 SELF-REPORTING REQUIREMENT**

Students, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using the [COVID 19 Health Reporting Form https://bit.ly/2Xq4g0f](https://bit.ly/2Xq4g0f). Report all positive cases of COVID-19 to your instructor and [Stephannie Waters](mailto:swaters@southeasterntech.edu), Exposure Control Coordinator, [swaters@southeasterntech.edu](mailto:swaters@southeasterntech.edu), 912-538-3195.

### **ONLINE ATTENDANCE**

It is the student's responsibility to be academically engaged each week doing course related 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” (Failing 0-59) in a course.

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. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Students will have at least one week to complete tests and assignments. All tests and assignments are due by 11:59 p.m. on Wednesday of each week and are scheduled on the lesson plan for online math and included as Due Dates in MathXL.

Exceptions to the due dates of assignments due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

### **STUDENTS WITH DISABILITIES**

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

**Swainsboro Campus:** [Macy Gay, \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.

**Vidalia Campus:** [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

### **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 make arrangements with the appropriate campus coordinator.

**Swainsboro Campus:** [Macy Gay, \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.

**Vidalia Campus:** [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery **MAY NOT** be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

### **WITHDRAWAL PROCEDURE**

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (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” (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of “F” (Failing 0-59) being assigned.

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

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. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

## **PROCTORED EVENT REQUIREMENT**

**Due to the uncertainties of COVID-19, this event will not be proctored for Spring Semester 202114. Students will complete the event, but will not be required to come on campus to do it.**

The event may be a major exam, assignment, or presentation, etc. that will count a minimum of 20% of the course grade. Students who do not complete the event as scheduled must submit a valid documented excuse within three business days after the scheduled event. If the excuse is approved by the instructor of the course, students must make arrangements with the instructor to make up/reschedule the missed event. The penalty and make up instructions will be at the instructor's discretion. Events will be given after the 65% point of the semester. **Students who do not complete the event on the scheduled date and do not present a valid documented excuse within three business days of the scheduled event will be withdrawn from the course with a "WF" (Withdrawn Failing). If the event is scheduled during final exams, any student who misses the event will be issued an "F" (Failing) for the course.**

## **MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC.)**

A grade of zero will be assigned for any missed assignment regardless of the reason.

## **ACADEMIC DISHONESTY POLICY**

The Southeastern Technical College Academic Dishonesty Policy states that 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 Southeastern Technical College Catalog and Handbook.

## **PROCEDURE FOR ACADEMIC MISCONDUCT**

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

### **1. 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.

### **2. Second Offense**

Student is given a grade of "WF" (Withdrawn Failing) 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.

### **3. 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 third 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

The Technical College System of Georgia (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member, or citizenship status (except in those special circumstances permitted or mandated by law). This nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes.

The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<b>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b>	<b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 165 Phone: 912-538-3126 Email: <a href="mailto:hthomas@southeasterntech.edu">Helen Thomas</a> ( <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a> )	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3230 Email: <a href="mailto:ljonas@southeasterntech.edu">Lanie Jonas</a> ( <a href="mailto:ljonas@southeasterntech.edu">ljonas@southeasterntech.edu</a> )

## ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

## GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College'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 [Southeastern Technical College Website](http://www.southeasterntech.edu) ([www.southeasterntech.edu](http://www.southeasterntech.edu)).

## TECHNICAL COLLEGE SYSTEM OF GEORGIA (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.*

### GRADING POLICY

Assessment/Assignment	Percentage
Homework	20%
Discussion Boards	5%
Quizzes	5%
Tests / Exams	20%
Mid Term Exam	20%
Final Exam (Cumulative) PROCTORED EVENT see Syllabus <b>(due to the uncertainties of COVID-19, this event will not be proctored for Spring Semester 202114. Students will complete the event, but will not be required to come on campus to do it).</b>	30%

### GRADING SCALE

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

**The Blackboard Gradebook is the official gradebook for the course.**

# MATH 1012 Foundations of Mathematics

## SPRING

### Semester 2021 Lesson Plan

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
<b>No Show Days and Beginning of Work Week 1</b> <b>Due January 13th</b>	No show requirements	<b>These items must be completed by January 13</b>	*Course agreement pledge *Create your MathXL account *Send me an email *Student Introduction Discussion Board ALL HOMEWORK, QUIZZES and EXAMS/TESTS ARE IN MATHXL unless noted	1, 6, 7 A,B
<b>Work Week 2</b> <b>Due January 20th</b>	1.1-1.4 Whole Numbers	Standard Notation Addition Subtraction Multiplication Division Rounding and estimating; Order Solving Equations Applications and Problem Solving Exponential Notation and Order of Operations	1.1-1.4 Homework  Discussion Board 1	1, 6, 7 A,B
<b>Work Week 3</b> <b>Due January 27th</b>	1.5-1.9 Whole Numbers	Standard Notation Addition Subtraction Multiplication Division Rounding and estimating; Order Solving Equations Applications and Problem Solving Exponential Notation and Order of Operations	1.5-1.9 Homework 1.5-1.9 Quiz Chapter (Ch.) 1 Exam	1, 6, 7 A,B



<b>Date/Week</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
<b>Work Week 4</b>  <b>In Progress February 3rd</b>	2 Fractions	Factorizations Divisibility Fractions and Fraction Notation Multiplication and Applications Simplifying Multiplying, Simplifying, and Applications Division and Applications	Ch. 2 Homework Ch. 2 Quiz Ch. 2 Exam <b>Due February 10th</b>	1, 6, 7 A,B
<b>Work Week 5</b>  <b>Due February 10th</b>	2 Fractions	Factorizations Divisibility Fractions and Fraction Notation Multiplication and Applications Simplifying Multiplying, Simplifying, and Applications Division and Applications	Ch. 2 Homework Ch. 2 Quiz Ch. 2 Exam  Discussion Board 2	2, 6, 7 A,B
<b>Work Week 6</b>  <b>Due February 17th</b>	3 Fraction Notation and Mixed Numerals	Least Common Multiples Addition and Applications Subtraction, Order, and Applications Mixed Numerals Addition and Subtraction Using Mixed Multiplication and Division Using Mixed Order of Operations; Estimation	Ch. 3.1-3.4 Homework Ch. 3.5-3.7 Homework Ch. 3.1-3.4 Quiz Ch. 3.5-3.7 Quiz Ch. 3 Exam	4, 6, 7 B,C
<b>Work Week 7</b>  <b>Due February 24<sup>th</sup></b>	4 Decimals	Decimal Notation; Order; Rounding Addition and Subtraction Multiplication Division Converting: Fraction to Decimal Estimating Applications and Problem Solving	Ch. 4 Homework Ch. 4 Quiz Ch. 4 Exam	3, 7 B,C
<b>Work Week 8</b>  <b>Due March 3rd</b>	5 Ratio and Proportion	Introduction to Ratios Rates and Unit Prices Proportions Application of Proportions Geometric Applications	Ch. 5 Homework Ch. 5 Quiz Ch. 5 Exam  Discussion Board 3	7, 8 B,C
<b>Work Week 9</b>  <b>Due WEDNESDAY March 10th</b>	Chapter 1-5	Mid Term Exam	Chapter 1-5	4, 5, 7 C

<b>Date/Week</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
<b>Work Week 10  Due March 17<sup>th</sup></b>	6 Percent Notation	Percent Notation Percent and Fraction Notation Solving Percent problems, using percent equations Solving Percent problems, using Prop. Applications of Percent Percent Applications Sales Tax, Commission, Discount	Ch. 6 Homework Ch. 6 Quiz Ch. 6 Exam	4, 5, 7 C
<b>Work Week 11  Due March 24<sup>th</sup></b>	7 Data, Graphs, and Statistics	Average, Median, and Modes Tables and Pictographs Bar Graphs and Line Graphs	Ch. 7 Homework Ch. 7 Quiz Ch. 7 Exam	6, 7 C
<b>Work Week 12  In Progress March 31<sup>st</sup></b>	8 Measurement	Linear Measures: American Units Linear Measures: Metric Units Converting between American/Metric Weight and Mass: Medical Apps Capacity: Medical Apps Time and Temperature	Ch. 8.1-8.4 Homework Ch. 8.1-8.4 Quiz <b>Due April 7<sup>th</sup></b>	6, 7 C
<b>Work Week 13  Due April 7<sup>th</sup></b>	8 Measurement	Linear Measures: American Units Linear Measures: Metric Units Converting between American/Metric Weight and Mass: Medical Apps Capacity: Medical Apps Time and Temperature	Ch. 8.5-8.7 Homework Ch. 8.5-8.7 Quiz Ch. 8 Exam  Discussion Board 4	ALL
<b>Work Week 14 In Progress April 14<sup>th</sup></b>	9 Geometry	Perimeter Area Circles Volume Angles and Triangles Square Roots and Pythagorean Theorem	Ch. 9.1-9.3 Homework Ch. 9.1-9.3 Quiz <b>Due April 21<sup>st</sup></b>	
<b>Work Week 15 Due April 21<sup>st</sup></b>	9 Geometry	Perimeter Area Circles Volume Angles and Triangles Square Roots and Pythagorean Theorem	Remaining Ch. 9 Homework Ch. 9 Quiz Ch. 9 Exam  Discussion Board 5	
<b>Work Week 16 Due April 28<sup>th</sup></b>	Review	Review in Class and Math Competency Exam	All	

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
<b>Work Week Due May 3rd</b>	Cumulative All Chapters 1-9	Final Exam PROCTORED EVENT REQUIRED TO PASS COURSE	<b>Due May 3rd</b>	

**COMPETENCY AREAS:**

1. Fractions
2. Decimals
3. Per-cents
4. Ratio and Proportion
5. Measurement and Conversion
6. Formula Manipulation
7. Technical Applications
8. Basic Statistics

**GENERAL CORE EDUCATIONAL COMPETENCIES:**

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information

**Discussion Board Rubric:**

Your grade for each discussion board posting will be either be a 100, 50, or 0. The overview of each grade is listed below:

Note: There is no minimum word count criterion for each discussion; however, your discussion board grade for each post is contingent upon your response providing a thoughtful and adequate reply to the given outline.

100 – Your post provides a thoughtful response to each aspect of the outlined discussion.

50- Your post provides thoughtful responses to some but not all aspects of the outlined discussion.

0- You did not respond to the discussion board post.

Discussion Boards are located in Blackboard.

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