



COMP 1000 INTRODUCTION TO COMPUTER LITERACY

*TENTATIVE HYBRID COURSE SYLLABUS

Spring Semester 2020 (FY202014)

COURSE INFORMATION

Credit Hours/Minutes: **3/3250 (4)**

Campus/Class Location: **Georgia Virtual Technical Connection (GVTC)/Blackboard and Room 818 Medical Technology Building Vidalia Campus**

Class Meets: **Traditional as HYBRID / 15 weeks Monday and Wednesday 1:05 pm– 2:10 pm (60% Face-to-Face & 40% as on ONLINE)**

Course Reference Number (CRN):

Preferred Method of Contact: **Southeastern Technical College Office 365 email**

INSTRUCTOR CONTACT INFORMATION

Instructor Name: **Mr. Jamie Powers**

Email: [Jamie Powers \(jpowers@southeasterntech.edu\)](mailto:jpowers@southeasterntech.edu)

Campus/Office Location: **2106 Building 2 Swainsboro Campus**

Office Hours: **3:30pm – 7:30pm Monday and Wednesday Swainsboro Campus**

Phone: **478-289-2221**

Fax Number: **478-289-2276**

Tutoring Hours (if applicable): **Made by appointment with instructor**

This course is taught in a hybrid format. Hybrid classes require students to complete a portion of the required contact hours traditionally by attending classes on campus while completing the remaining portion online at the student's convenience with respect to the instructor's requirements.

SOUTHEASTERN TECHNICAL COLLEGE (STC) CATALOG AND STUDENT HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Student Handbook](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php) (<http://www.southeasterntech.edu/student-affairs/catalog-handbook.php>).

REQUIRED TEXT

For cheaper books, student can purchase a Cengage Unlimited 1 semester, 1-year or 2-year access key cost for all Cengage books and products from the STC Bookstore or online at <http://www.cengagebrain.com>. Students can rent a book from the website and then ship it back after completion for \$7.99.

Cengage Unlimited Online Books of Shelly Cashman Series® Discovering Computers & Microsoft® Office 365 & Office 2016 A Fundamental Combined Approach, Loose-leaf Version, 1st Edition, **AUTHORS:** Campbell/Freund/Frydenberg/Last/Pratt/Sebok/Vermaat - ©2017, **BOOK with SAM KEYCODE BUNDLED TOGETHER: ISBN #978-1-337-21753-8**. Student will setup their Cengage account using their STC student email address and login. The Bundled ISBN# will be entered to add both the book and the SAM code to the dashboard of the Cengage product.

REQUIRED SUPPLIES & SOFTWARE

Use **Southeastern Technical College computers or a computer with XP, VISTA, Win 7, 8, or 10**, 1.3 Ghz Processor, 512 MB RAM, up to 4.5 GB free hard drive space, DVD Drive, Monitor with 1024X768 resolution, sound card, **Browser requirement is Internet Explorer 9 or higher, Google Chrome, or Mozilla FireFox**, Windows Media Player 10.0 or later, Adobe Reader. One **USB Flash Drive, HEADPHONES**, Microsoft Office 2016, Internet connection. **Students can download Microsoft Office from the Office 365 given by STC for free (NO NEED TO PURCHASE). Students will be submitting assignments to the SAM application. Students are required to have book on the first day of class. Students can use e-books if they prefer.**

Note: Although students can use their smart phones and tablets to access their online course(s), exams, 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

Introduces the fundamental concepts, terminology, and operations necessary to use computers. Emphasis is placed on basic functions and familiarity with computer use.

MAJOR COURSE COMPETENCIES/COURSE OUTLINE

Topics include introductions to computer and digital terminology and usage, operating systems, Internet and digital communication, word processing applications, spreadsheet applications, database applications, and presentation applications.

PREREQUISITE(S)

None

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 (HYBRID)

Students are expected to complete all work shown on the attached assignment sheet. Students will have at least one week to complete all Module work, project assignments, and tests that are due at midnight on Monday of each week. Dates are specified on the attached calendar. Assignments will be saved via the One Drive, Remote Lab, Blackboard, and SAM. Assignments are given with numerous days to complete; therefore, **no assignment will be accepted late. After the due date a grade of zero will be given.**

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 are responsible for policies and procedures included in the Southeastern Technical College *Catalog and Handbook*.

Program students must earn a minimum grade of C in this course. Unannounced quizzes/assignments may be given. Late assignments will not be accepted. Students who miss any assignment, quiz, test, or project will receive a grade of 0.

Students are expected to prove weekly academic engagement by meeting assignment deadlines each week and spending a minimum of **3 hours per week** during the semester doing the required homework, quizzes, and tests. Students are expected to communicate frequently through college email. College email is accessed at <https://portal.office.com>, under Quick links on our webpage, or in the menu of your Blackboard course.

EMAILS

Preferred method of communication should be through student MAIL. Make sure that you always type your name and class in the subject line of every email you send me so I know which class you are in. For example:

COMP1000 Powers

Students are expected to communicate frequently through college email. College email is accessed at <https://portal.office.com>, under Quick links on our webpage, or in the menu of our Blackboard course.

CHECKING GRADES

A grade book is made available in the BLACKBOARD course on the main page by clicking the MY GRADES link when students log in. This grade book is for students to review and is continuously updated throughout the semester. Students can view their grades at any time to see the individual grades for each assignment. The overall percentage averages should display in the grade book to help track course progress.

NO HARM NO FOUL POLICY

It is the student's responsibility to drop courses during the first three days by completing a withdrawal form with a Counselor in Student Affairs. If a student comes to class during the first three days or any day during this time, the student will be dropped with no penalty **only if** they have completed the Withdrawal Form with Student Affairs by the close of business on the third business day of the semester. **The student must formally withdraw from classes in order to receive the no harm-no foul benefit.**

HYBRID ATTENDANCE

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 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" (Failing 0-59) 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.

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, 478-289-2274, Building 1, Room 1210

Vidalia Campus: Helen Thomas 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, 478-289-2274, Building 1, Room 1210

Vidalia Campus: Helen Thomas 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.

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

Students are required to take all tests scheduled during the semester. Failure to take Tests/Exam(s), and assignments **will result in a grade of zero. There will be no makeup of assignments or EXAMS.** If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the assignment/exam will be reset. Instructor reserves the right to deduct points from the scores for exceeding the scheduled time limit on the assignment/exam. Note: If student notifies instructor about problems because of technical issues after the due date or on the last day of the semester, the student will **NOT** be allowed to make-up the assignment. **No exceptions! Assignments must be turned in on the assigned date**

and will not be accepted late, a grade of zero will be given. All Assignments are due according to the lesson plan. The due dates are posted on the lesson plan. Weeks start on Tuesday and end on Monday with assignments due on Monday at midnight. See Lesson Plan. Makeups are not allowed for unannounced quizzes/assignments.

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:

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

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's Website \(www.southeasterntech.edu\)](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
SAM Exams	35%
SAM Projects	35%
Unannounced Quizzes	5%
Final Exam	25%

GRADING SCALE

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

Grade of D or below results in student repeating the class

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 to them during face-to-face 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.

COMP1000 INTRODUCTION TO COMPUTER LITERACY

SPRING SEMESTER 2019 LESSON PLAN FY202014 TENTATIVE – SUBJECT TO CHANGE

Key: Chp= Chapter, Pg. = Page, OFF= Office 365, WD= Word, AC= Access, PPT = PowerPoint, EX = Excel, Mod = Module, Jan = January, Feb= February, Mar=March, Apr=April, OL = Online Assignment

Date	Modules	Content	Assignments and Tests	Competency
Week 1 Jan 7	E-MAIL	First Day of Class: Class Introduction – Syllabus, Outline, Work Ethics, Rules & Regulations coverage REQUIRED FOR THE COURSE Managing E-Mail Messages with STC Office 365 MAIL You will have to create a cengagebrain account and add your Bundled ISBN# for your Book and SAM. Use your school email address and PIN to create the account. Make sure you write down your Cengage account name and password! You will be using the links inside of your Blackboard course to complete your SAM assignments.	Familiarize yourself with BLACKBOARD class (COMP 1000). See STC Website – MySTC Login to BLACKBOARD Getting Started – Start Here Items: <ul style="list-style-type: none"> • Read all items • Complete STC Pledge Acknowledgement, Student Introduction • Join the COMP1000 course section in SAM. • Familiarize yourself with Using Student Email Account (STC Office 365 Mail) from mySTC. • Send email to instructor with an attachment for First Day Attendance. All above items due 11:55 PM 01/07/19 for attendance	3 a, c
Jan 8 – 13	Intro. Today's Techn. Outlook	Module 1: Computers, Devices, and the Web You must complete the training in order for the Exam to display. You will read and step through all red steps of the book to learn materials. You will then complete Training & Training Exams, create a Project and Project Exams in SAM.	Read Module 1 in book. Complete the following: <ul style="list-style-type: none"> • Outlook Training & Exam in SAM (OL) • Intro to Technology Training and Exam in SAM. (SAM PATH) Week 1 Assignments due 11:55 PM Jan 13	1,2,3 a, c

Date	Modules	Content	Assignments and Tests	Competency
Week 2 Jan 14 – 20	Office 2016 and Windows 10	Essential Concepts and Skill Start working thru Word Module book work. For the purpose of this course – Chapters are called MODULES. To SAVE all your Chapter/Module book work, you will submit them to SAM. You can also save to your One Drive from the Office365 portal.	Read and step through Office and Windows 8 section (OFF2 – OFF75) Complete the following: <ul style="list-style-type: none"> • Office 2016 & Windows 10 Training • Office 2016 & Windows 10 Exam in SAM (SAM PATH) (OL) Week 2 assignments due 11:55 PM Jan 20	
Week 3 August Jan 21 – 27	WORD Module 1	Creating, Formatting, and Editing a Word Document with a Picture All SAM items should be saved to your Office 365 OneDrive COMP1000 Folder. Once complete, submit each file back to the SAM for grading. You do not have to print or email results. Make sure you share your One Drive COMP1000 with your instructor. See Instructions in Blackboard on how to submit projects in SAM. Sept 2 HOLIDAY – School will be closed.	Work through Word Module 1 steps in the book to create Surf Flyer . (Pgs. WD 2- 47) to learn using WD Mod 1 Project Textbook in SAM Complete the following: <ul style="list-style-type: none"> • WD Mod 1 Project in SAM. (OL) Week 3 assignments due 11:55 PM Jan 27	4 a, c
Week 4 Jan 28 – Feb 3	WORD Module 2	Creating a Research Paper with References & Sources	Work through Word Module 2 steps in the book to create Headphones and Earbuds Paper (WD 58-111) using WD Mod 2 Project Textbook in SAM Complete the following: <ul style="list-style-type: none"> • WD Mod 2 Project in SAM. (OL) Week 4 assignments due 11:55 PM Feb 3	4 a, c

Date	Modules	Content	Assignments and Tests	Competency
Week 5 Feb 4 – 10	WORD Module 3	Creating a Business Letter with a Letterhead and Table <i>Save the envelopes by Adding it to the Document. See Page 173.</i>	Work through Word Module 3 steps in the book to create Apple Park Letterhead, Lee Vendor Letter (WD 122-173) using WD Mod 3 Project Textbook in SAM Complete the following: <ul style="list-style-type: none"> • WD Mod 3 Project in SAM (OL) • WD Mod 1, 2, and 3 Trainings in SAM. • WD Mod 1-3 Project EXAM in SAM Week 5 assignments due 11:55 PM Feb 10	4 a, c
Week 6 Feb 11 – 17	PPT Module 1	Creating and Editing a Presentation with Pictures	Work through PPT Module 1 steps in the book to create Tall Oaks (PPT 2-48) using PPT Mod 1 Project Textbook in SAM (OL) Week 6 assignments due 11:55 PM Feb 17	4 a, c
Week 7 Feb 18 – 24	PPT Module 2	Enhancing a Presentation with Pictures, Shapes, and Word Art	Complete PPT Mod 1 Project in SAM. Work through PPT Module 2 steps in the book to create Basketball Camp (PPT 58-103) using PPT Mod 2 Project Textbook in SAM. You do not have to print (OL) Week 7 assignments due 11:55 PM Feb 24	7 a, c
Week 8 Feb 25 – Mar 2	PPT Module 3	Reusing a Presentation and Adding Media & Animation You will need the Data Files for this module	Complete the following: <ul style="list-style-type: none"> • PPT Mod 2 Project in SAM. Work through PPT Module 3 steps in the book to create Spokes Bike Club (PPT 122-162) using PPT Mod 3 Project Textbook in SAM. You do not have to print (OL) Week 8 assignments due 11:55 PM Mar 2	7 a, c
Week 9 Mar 3 – 9	PPT Module 3 continued	MIDTERM OF SEMESTER School closed on March 5	Complete the following: <ul style="list-style-type: none"> • PPT Mod 3 Project in SAM. • PPT Mod 1, 2, and 3 Trainings in SAM • PPT Mod 1-3 Project EXAM in SAM (OL) Week 9 assignments due 11:55 PM Mar 9	7 a, c

Date	Modules	Content	Assignments and Tests	Competency
Week 10 Mar 10 – 16	EXCEL Module 1	Creating a Worksheet and a Chart	Work through Excel Module 1 steps in the book to create Linda Fox Budget (EX 2- 49) using EX Mod 1 Project Textbook in SAM. You do not have to print Complete the following: <ul style="list-style-type: none"> • EX Mod 1 Project in SAM. (OL) • Week 10 assignments due 11:55 PM Mar 16	6 a, b, c
Week 11 Mar 17 – 23	EXCEL Module 2	Formulas, Functions, and Formatting	Work through Excel Module 2 steps in the book to create Olivia’s Art Supply Salary Report (EX 58 – 105) using EX Mod 2 Project Textbook in SAM. Complete EX Mod 2 Project in SAM. Week 11 assignments due 11:55 PM Mar 23	6 a, b, c
Week 12 Mar 24 – 30			Complete the following: <ul style="list-style-type: none"> • EX Mod 1 and 2 Trainings in SAM (OL) • EX Mod 1-2 EXAM in SAM (OL) Week 12 assignments due 11:55 PM Mar 30	
Week 13 Mar 31 – Apr 13	ACCESS Module 1	Databases and Database Objects: An Introduction	Work through Access Module 1 steps in the book to create PrattLast Associates (AC 2 – 56) using AC Mod 1 Project Textbook in SAM. BE SURE TO SAVE AT THE BEGINNING (Pg AC 4) Week 13 assignments due 11:55 PM Apr 13	5 a, c
Apr 6 – 9		Spring Break	Holidays	
Week 14 April 13 – 20		Notify instructor of the proctor date you have chosen for the COMP1000 Proctored Final Exam.	Complete the following: <ul style="list-style-type: none"> • AC Mod 1 Project in SAM. • AC Mod 1 Training (OL) • AC Mod 1 EXAM in SAM Week 14 assignments due 11:55 PM Apr 20	5 a, c
Week 15 Apr 21 – 27		LAST WEEK OF CLASS SEMESTER ENDS	Complete COMP1000 Competency Final Training in SAM. (OL)	1-7 a, b, c
Finals Apr 29		Final Exam	COMP 1000 Final Exam in SAM. Due Apr 29 Vidalia during class.	

Students are responsible for all information contained in this lesson plan. This lesson plan is subject to change at instructor’s discretion.

Competency Areas:

1. Computer and Digital Terminology and Usage
2. Introduction to Operating Systems
3. Introduction to Internet and Digital Communications
4. Introduction to Word Processing Applications
5. Introduction to Database Applications
6. Introduction to Spreadsheet Applications
7. Introduction to Presentation Applications

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.