MATH-0530: Support Course for Introductory Statistics (Online | Fall 2019)

Instructor Information

<table>
<thead>
<tr>
<th>Instructor Name</th>
<th>Akwasi Kusi-Appiah</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor Rank</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Instructor Email</td>
<td><a href="mailto:akappiah@southwest.tn.edu">akappiah@southwest.tn.edu</a></td>
</tr>
<tr>
<td>Instructor Office</td>
<td>Mwh 29</td>
</tr>
<tr>
<td>Office Hours</td>
<td>Monday - Friday (11:00am - 1:00pm)</td>
</tr>
<tr>
<td></td>
<td>Monday - Thursday (5:00pm - 6:00pm)</td>
</tr>
</tbody>
</table>

| Instructor Phone  | 901-333-4254 |
| Department Phone  | 901-333-4474 |

Course Information

Course Description
This co-requisite course contains topics which directly support the content in MATH 1530 Introductory Statistics; and it contains the five TBR approved mathematical competencies which include: the study of real numbers and operations, operations with algebraic expressions, graph analysis, equations solving, modeling and critical thinking.

Co-requisite: MATH 1530 - Introductory Statistics - Enhanced

Student Learning Objectives
Module 1

- Use the order of operations to simplify mathematical expressions
- Write percents as fractions
- Read and construct frequency distributions and histograms
- Identify integers, rational numbers, irrational numbers, and real numbers
- Find the absolute value of a real number
- Define the meaning of inequality symbols

Module 2

- Evaluate algebraic expressions given replacement values for variables
- Combine like terms
- Graph paired data to create a scatter diagram
- Use the power, product and quotient rules for exponents
- Add/subtract/multiply polynomials
- Use the product and quotient rules for radical expressions
- Factor out the greatest common factor from a polynomial
- Find the probability of an event

Module 3

- Find an unknown number in a proportion
- Find the volume of solids
- Use formulas to solve problems
- Use the addition and multiplication properties of equality to solve linear equations
- Graph inequalities on a number line

Module 4

- Find the missing coordinate of an ordered pair solution, given one coordinate pair
- Graph a linear equation by finding and plotting ordered pair solutions
- Analyze the meaning of the x-intercept and the y-intercept
- Compare the slopes of parallel and perpendicular lines
- Interpret slope as a rate of change
- Use the slope-intercept form to write an equation of a line
- Use the point-slope formula to find the equation of a line
• Use function notation
• Determine whether an ordered pair is a solution to a linear inequality in two variables
• Graph a linear equation by finding and plotting ordered pair solutions
• Graph a linear inequality in two variables
• Use interval notation

Module 5

• Read and construct frequency distributions and histograms
• Read line graphs
• Find the median of a list of numbers
• Find the mean of a list of numbers
• Find the probability of an event
• Decide whether an ordered pair is a solution of a system of linear equations
• Solve a system of linear equations by graphing
• Use the substitution method to solve a system of linear equations
• Use the addition method to solve a system of linear equations
• Solve real-world problems involving systems of linear equations

Prerequisites
Co-requisite Course: MATH 1530 Introductory Statistics - Enhanced

Corequisites
Co-requisite Course: MATH 1530 Introductory Statistics - Enhanced

Specific Course Requirements
Good internet connectivity

Lastest version of flash player for MyLabsPlus

Textbooks, Supplementary Materials, Hardware, and Software Requirements

Required Text
REQUIRED:

TI-84 (plus) graphing utility

The eBook comes with the MyLabsPlus software: Developmental Mathematics with Elementary Statistics, Custom Edition for Southwest Tennessee Community College by Ron Larson, Betsy Farber, Elayn Martin-GayCopyright 2016 Pearson Education, ISBN: 9781323184936. You have paid for access to this software with your tuition by the IncludeEd program. Southwest offers IncludED, a textbook program, to our students in an effort to provide affordable and timely delivery of all textbooks and resources for their coursework without any additional out-of-pocket expense. Courses that use the IncludeED program are noted in the course schedule. In accordance with federal regulations, effective July 1, 2016, Southwest established a policy under which students may opt-out of the IncludeED program. If you want to opt-out, please contact your instructor. For more information about the IncludeEd program in the Southwest College catalog follow the following link:

http://catalog.southwest.tn.edu/content.php?catoid=22&navoid=759#textbook-opt-out

Students will log in to the website: stcc.mylabsplus.com to access their course modules. Instructors will give instructions on how to log in to this website.

Hardware Requirements

If this course requires the use of a computer, these are general recommendations for accessing any of the services that Southwest offers on the Web (e.g. My.Southwest, etc.).

- minimum Pentium IV or higher processor (recommended)
- SVGA monitor, minimum resolution 800x600 (1024x768 strongly recommended)
- CD-ROM or DVD drive
- floppy drive, zip drive, or CD-RW drive
- Mouse or compatible pointing device
- at least 512 MB of RAM (recommended)
- (optional) printer

Software Requirements

The software listed below is recommended for any student accessing Southwest services through the Internet. Your course may have specific software requirements.

- Windows 10 or 7
Mac OS X (up to 10.12) (OS 10.14 recommended)
Firefox (latest)
Microsoft Edge
Chrome (latest)
Internet Explorer: DO NOT USE WITH PAWS
Current Anti-Virus protection
Reliable Internet connection (broadband recommended but not required)

Many instructors may require assignments to be submitted using Microsoft Excel or Microsoft Word.
To learn how to obtain discounted software from Microsoft, visit http://southwest.tn.onthehub.com.

Assessment and Grading

Method of Evaluation

Conditional Releases

The coursework in MyLabsPlus was designed with "prerequisite flags" to layer the content in a progressive manner. This means you cannot progress in the course unless prerequisite materials have been completed with mastery scores. These prerequisite materials: lecture videos, competency builder assignments, quizzes, and tests were developed to help you master the developmental math skills that are required to digest the concepts in your co-requisite MATH 1530 Introductory Statistics (college-level math) curriculum. There is a mastery score of 100% on the lecture videos (this means you must watch all the video lectures before starting on the competency builder assignment), a mastery score of 90% on the homework assignments, and a mastery score of 70% on the quizzes and competency exams.

Students who cannot meet these mastery scores should contact their instructor.

Note: The activities may contain supplemental materials which are not graded, however utilizing these resources will assist you in a better understanding of the curriculum.

Test Out Option

Each module begins with lecture videos, followed by a "competency builder" assignment. If you would like to try to test out of the module you can choose the "Test Out" exam to see if you score a 70% or higher in this competency. You only get 1 try at this "Test Out" option. If you pass the module by the "Test Out" option, please email your instructor immediately so your instructor can assign your "Test
Out" score to your Competency Exam score and assign a 100% to the quiz score in that module.

**Grading Scale**

5 Competency Quizzes @ 1% each  
5%

3 Competency Exams @5% each  
15%

Proctored Exam: Competency 3  
40%

Proctored Exam: Competency 5  
40%

Total  
100%

**Testing Procedure / Policy**

There will be two proctored competency exams, Competency 3 and Competency 5, at the midterm and at the end of the semester and each are worth 40% of the overall final score. There will be five quizzes that are not proctored that are each worth 1% of the overall final score. There will be three competency exams that are not proctored that are each worth 5% of the overall final score.

**Major Assignments**

Course Design:

Lecture

These are video lectures covering the essential developmental math topics in the competency builder assignment. These videos can be watched and rewatched. Students must make 100% (watch all the videos) to move on in the module. Students should write down lecture notes as they watch the videos to refer back to the concepts/key words when they work on their homework.
<table>
<thead>
<tr>
<th>Competency Builder</th>
<th>This assignment contains the TBR competency curriculum. Students need to make 90% or higher to move on in the competency curriculum.</th>
<th>Contains built-in tutorials, step-by-step instructions for each problem. There is no limit to the number of attempts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Optional) Test Out*</td>
<td>This is an optional test. If a student scores 70% or higher they can move to their next module. (Students should contact their instructor so their instructor can replace their Competency Exam score with their “Test Out” score and assign 100% to the quiz in the module they passed by testing out.)</td>
<td>Students get exactly 1 try to test out of the competency.</td>
</tr>
<tr>
<td>More Practice A</td>
<td>Students who do not make a 70% or higher on the Test Out, must complete this homework assignment at 90% to move on.</td>
<td>Only missed Test Out problems are included in this assignment, and it contains built-in tutorials, step-by-step instructions for each problem. There is no limit to the number of attempts.</td>
</tr>
<tr>
<td>Quiz</td>
<td>Students need to make 70% or higher to move on. (Note: Students who pass the Test Out for the module will not need to take the quiz. Their instructor must manually submit 100% score for this quiz in the passed module.)</td>
<td>No tutorials available.</td>
</tr>
<tr>
<td></td>
<td>Quiz is timed: 90 min</td>
<td>Students will be given 4 attempts.</td>
</tr>
</tbody>
</table>

More Practice B

Students who do not make 100% on the quiz must complete this assignment and make 90% to move on.

This assignment contains practice problems to prepare students for the competency exam. Students must make a 90% or higher to move on to the exam.

Students need to make 70% or higher to move to the next module.

Exam*

(Note: Students who pass the Test Out for the module will not need to take the Exam. Their instructor must manually submit the Test Out score for this Exam.)

Exam

Students who do not make 70% or higher on the competency exam must complete this assignment and make 90% to retake the exam.

Only missed Quiz problems are included in this assignment, and it contains built-in tutorials, step-by-step instructions for each problem. There is no limit to the number of attempts.

Contains built-in tutorials, step-by-step instructions for each problem. There is no limit to the number of attempts.

No tutorials available.

Exam is timed: 90 min

Students will be given 4 attempts.

More Practice C

Students who do not make 70% or higher on the competency exam must complete this assignment and make 90% to retake the exam.

*Module 3 and 5: Exams must be proctored

Only missed Exam problems are included in this assignment, and it contains built-in tutorials, step-by-step instructions for each problem.

Exam is timed: 90 min
This is an optional test. Students who wish to try this option must arrange to have it proctored. Students who pass with a 70% or higher are finished with the course.

(Optional) Test Out: Exam 3 and 5

(Students with scores 70% or higher should contact their instructor so their instructor can replace Competency Exam 5 with their “Test Out” score and assign 100% to their Quiz 5.)

Test is timed: 120 min.

These exams must be proctored.

Exams 3 and 5

(Note: Students who pass the “Test Out” will not need to take the mastery exam.)

Exam is timed: 120 min

**Policy on Student Professional Conduct**

In their academic activities, students are expected to maintain high standards of honesty and integrity. Academic dishonesty is prohibited.

Such conduct includes, but is not limited to:

- an attempt by one or more students to use unauthorized information in the taking of an exam,
- to submit as one's own work, themes, reports, drawings, laboratory notes, computer programs, or other products prepared by another person,
- or to knowingly assist another student in obtaining or using unauthorized materials.

Plagiarism, cheating, and other forms of academic dishonesty are prohibited.
Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are subject to disciplinary action through the regular procedures of Southwest's student conduct policies.

In addition to other possible disciplinary sanctions that may be imposed, the instructor has the authority to assign an "F" or zero for an activity or to assign an "F" for the course.

**Guidelines for Communications**

**Email Guidelines**

Each student has been provided a Southwest email account. Please do not email your classmates unless the topic relates specifically to this course. Emails that contain advertisements, solicitations, personal interests, etc. are strictly forbidden. Below are a few guidelines that you should keep in mind when sending email:

- Always include a subject line.
- Typing in all CAPS is considered SHOUTING in Cyberspace. So please use upper and lower case characters when sending emails.
- Remember, without facial expressions some comments may be taken the wrong way. Be careful in wording your emails and use good Netiquette.
- Use standard fonts.
- Do not send large attachments without permission.
- Respect the privacy of other class members.

**Online instructors will respond to all emails within 48 hours.**

**Discussion Guidelines**

Below are a few guidelines that should be adhered to when using the Discussion forum. Messages that contain advertisements, solicitations, personal interests, etc. are strictly forbidden.

- Review the discussion threads thoroughly before entering the discussion.
- Please try to maintain threads by using the "Reply" button rather starting a new topic.
- Do not make insulting or inflammatory statements to other members of the class. Be respectful of others' ideas.
- Be patient and read the comments of other group members thoroughly before entering your remarks.
Be positive and constructive in group discussions.
Respond in a thoughtful and timely manner.

Technical Support

Technical Support

My.Southwest: Submit a Student Technical Support Request. Please provide a full detailed explanation of the problem.

PAWS: For course related questions, contact your instructor. For technical issues with the PAWS website, contact the College Helpdesk at (901) 333-4357 or Digital Learning at (901) 333-4612.

Student Services

Embedded Librarian Service
This service may be found inside PAWS courses.

Two Southwest Librarians are assigned to work with you and your instructor throughout the course for the entire semester. The Librarians will suggest library resources and answer questions sent to "Ask A Librarian."

To contact a Librarian by email, go to the Classlist and select "Ask A, Librarian."

Student Services Links

- Academic Support Centers / Tutoring
- Advising
- Campuses, Centers, and Site
- Student Disability Services Southwest Tennessee Community College is committed to serving all students, including students with disabilities, and adheres to the guidelines set forth in Title II of the Americans with Disabilities Act (ADA).
- Additional Links: Student Information & Services

Academic Support
The Academic Support Center (ASC) provides free services and resources to help Southwest students successfully reach their academic and career goals. These services include tutoring by peer and master tutors, computer labs, success workshops, academic coaching, early alerts from your instructors and areas for individual or group study at numerous locations. The ASC also provides Supplemental Instruction in some of our general education classes and the Center is also responsible for Academic Progress Reporting so that you will be aware of your academic standing during the 5th-6th week of the semester. Online tutoring services are offered through Smarthinking 24 hours a day, 7 days a week. Simply login to your PAWS to access this online tutoring resource.

**Additional Information**

**Drop/Withdrawal Dates**

See the current official college [academic catalog](#) for the withdrawal policies. Important semester drop and withdrawal dates can be found on the [Cashier's Office Important Dates](#) page.

**Academic Misconduct**

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. A student guilty of academic misconduct, either directly or indirectly, through participation or assistance, is immediately responsible to the instructor of the class. The instructor has the authority to assign an "F" grade or a zero for the exercise or examination, or to assign an "F" for the course. College sanctions for academic misconduct may include suspension or dismissal from the College. Please see the section in the current Catalog on Academic Misconduct.

**Classroom Behavior:** Any student engaged in disruptive conduct or conduct violating the general rules or regulations of the College may be ordered to temporarily leave the classroom. Extended or permanent exclusion from the classroom can be achieved only through appropriate procedures of the College.

**Open Labs**

**Macon Cove Campus**

- Bert Bornblum Library: Available during [library hours](#)
- Farris Building, Room 2131: Monday-Thursday 8 a.m.-5:30 p.m., Friday 8 a.m.-4:30 p.m.

**Union Avenue Campus**
• Jess Parrish Library - Available during library hours
• M Building, Room 105, 8 a.m.-6:30 p.m.

Gill Center

• Computer Lab, Room 101 (Please note this room is available when classes are not scheduled. Schedule fluctuates each semester.)
• Library - Available during library hours

Maxine A. Smith Center

• Open Lab, Room 101
• Library - Available during library hours

Whitehaven Center

• Open Lab, Building 6, Room 127
• Library - Available during library hours

Syllabus Updates

The instructor reserves the right to make changes as necessary to this syllabus. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes.