



**Early Childhood Care and Education (ECCE)
ECCE 2116 Math and Science
COURSE SYLLABUS
Fall Semester 2019 (202012)**

COURSE INFORMATION FALL

Credit Hours/Minutes: 3/3000
Campus/Class Location: Swainsboro/Building 2 2125
Class Meets: Monday and Wednesday 11:00-12:50
Course Reference Number (CRN): 202194
Preferred Method of Contact: College Email

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Kay Wilson
Office Location: Building 2, Room 2125
Office Hours: Monday-Thursday 1:00-4:00
Email Address: [Kay Wilson \(kwilson@southeasterntech.edu\)](mailto:kwilson@southeasterntech.edu)
Phone: 478-289-2213
Fax Number: 478-289-2276

SOUTHEASTERN TECHNICAL COLLEGE'S (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 \(http://www.southeasterntech.edu/student-affairs/catalog-handbook.php\)](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php).

REQUIRED TEXT

Math and Science for Young Children-8th Edition; Author: Charlesworth
International Standard Book Number (ISBN): 978-1-305-08895-5

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

REQUIRED SUPPLIES & SOFTWARE

Notebook, paper, pen/pencil. Students will be conducting learning activities; therefore, they will need supplies such as paper, glue, markers, etc. The type and cost of supplies varies per semester and per activity.

COURSE DESCRIPTION

This course presents the process of introducing math and science concepts to young children. It includes planning and implementation of developmentally appropriate activities and development of math and science materials, media and methods. Topics include inquiry approach to learning; cognitive stages and developmental processes in developing math and science concepts with children birth to five; cognitive stages and developmental processes in developing math and science concepts with children in kindergarten and primary grades; planning math and science activities; and development of math and science materials, media and methods.

MAJOR COURSE COMPETENCIES

Topics include:

1. Inquiry approach to learning.
2. Cognitive stages and developmental processes in developing math and science concepts with children birth to five.
3. Cognitive stages and developmental processes in developing math and science concepts with children in kindergarten and primary grades.
4. Planning math and science activities.
5. Development of math and science materials, media, and methods.

PREREQUISITE(S)

ECCE 1103

COURSE OUTLINE

1. Inquiry Approach to Learning
2. Cognitive/Developmental Processes in Math/Science with Children Birth to Age Five
3. Cognitive/Developmental Processes in Math/Science with Children in Kindergarten to Primary Grades
4. Planning Math and Science Activities
5. Development of Math and Science Materials, Media and Methods

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

Assignments must be turned in on the specified date. All work must be printed off and turned in at the beginning of class the date that it is due. If a student is absent from class, all work must be turned in at the beginning of class the next day upon returning to class. If this is not done, 10 points will be deducted for work turned in late or work not turned in at the beginning of class. Work will not be accepted if it is over one week past the due date. Failure to take tests on the scheduled day will result in a grade of zero for the test not taken. The makeup test must be taken the next day upon returning to class. The zero assigned for the missed test will be replaced with the grade the student makes on the makeup exam. **STUDENTS WILL ONLY BE ALLOWED TO TAKE ONE MAKEUP TEST DURING THE SEMESTER!** Students are responsible for policies and procedures included in the STC Catalog and Student Handbook.

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 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.

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" 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' 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.

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

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

Assignments must be turned in on the specified date. All work must be printed off and turned in at the beginning of class the date that it is due. If a student is absent from class, all work must be turned in at the beginning of class the next day upon returning to class. If this is not done, 10 points will be deducted for work turned in late or work not turned in at the beginning of class. Work will not be accepted if it is over one week past the due date. Failure to take tests on the scheduled day will result in a grade of zero for the test not taken. The makeup test must be taken the next day upon returning to class. The zero assigned for the missed test will be replaced with the grade the student makes on the makeup exam. **STUDENTS WILL ONLY BE ALLOWED TO TAKE ONE MAKEUP TEST DURING THE SEMESTER!** Students are responsible for policies and procedures included in the STC Catalog and Student Handbook.

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 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:

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 108 Phone: 912-538-3126 Email: Helen.Thomas@southeasterntech.edu	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie.Jonas@southeasterntech.edu

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 \(www.southeasterntech.edu\)](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
Tests	25%
Weekly Assignments	35%
Activities/File Folders	40%

GRADING SCALE

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

**ECCE 2116 Math and Science
Fall Semester 2019 Lesson Plan**

Date/Week/Due	Chapter(s)	Content	Assignments	Competency Area
Week 1 Week of August 12 th Week of August 19 th Due 8/26	Chapter 1	Syllabus Development, Acquisition, Problem Solving, Assessment	-Read Chapter 1 -Define Chapter Words -Conservation Task All Assignments Due: 8/26 (at the beginning of class)	1, 2, 5 a, c
Week 2 Week of August 26 th Due 9/4	Chapter 2	Basics of Science, Engineering and Technology	-Read Chapter 2 -Define Chapter Words -Download NAEYC's position statement on Math and Science and answer review questions of NAEYC's position statement -Chapter 1 and 2 Test All Assignments Due: 9/4 (at the beginning of class)	3, 4 a, c
Week 3 Week of September 2 nd (Holiday: September 2 nd) Due 9/9	Chapter 3	Pre-Kindergarten and Kindergarten Concepts and Skills	-Read Chapter 3 -Define Chapter Words -Download the Georgia Standards of Excellence (GSE) for grades K-3 -Classifying OR Comparing File Folder Due All Assignments Due: 9/9 (at the beginning of class)	1, 3, 4 a, b, c
Week 4 Week of September 9 th Due 9/16	Chapter 4	More Pre-Kindergarten Concepts and Skills	-Read Chapter 4 -Define Chapter Words -Chapter 3 and 4 Test -Part/Whole File Folder Due All Assignments Due: 9/16 (at the beginning of class)	3, 4 a, b, c
Week 5 Week of September 16 th Due 9/23	Chapter 5	Pre-K-K Ordering, Measurement, Data Collection and Analysis	-Read Chapter 5 -Define Chapter Words -Seriation OR Ordering File Folder Due -Time File Folder Due All Assignments Due: 9/23	3, 4 a, b

Date/Week/Due	Chapter(s)	Content	Assignments	Competency Area
<p>Week 6</p> <p>Week of September 23rd</p> <p>Due 9/30</p>	Chapter 6	Integrating the Curriculum	<p>-Read Chapter 6</p> <p>-Define Chapter Words</p> <p>-Chapter 5 and 6 Test</p> <p>-Measuring File Folder Due</p> <p>-Graphing File Folder Due</p> <p>All Assignments Due: 9/30</p>	<p>5</p> <p>a, c</p>
<p>Week 7</p> <p>Week of September 30th</p> <p>Due 10/7</p>	Chapter 7	Transitioning from Preschool to Kindergarten to Primary	<p>-Read Chapter 7</p> <p>-Define Chapter Words</p> <p>-Teach One Math Activity to the Class (With Activity Plan)</p> <p>All Assignments Due: 10/7</p>	<p>5</p> <p>a, c</p>
<p>Week 8</p> <p>Week of October 7th</p> <p>Due 10/14</p>	Chapter 8	Whole Number Operations, Patterns and Fractions	<p>-Read Chapter 8</p> <p>-Define Chapter Words</p> <p>-Chapter 7 and 8 Test</p> <p>-Operation of Whole Numbers File Folder Due</p> <p>-Pattern File Folder Due</p> <p>All Assignments Due: 10/14</p>	<p>5</p> <p>a, c</p>
<p>Week 9</p> <p>Week of October 14th</p> <p>Due 10/21</p>	Chapter 9	Place Value, Geometry, Data Analysis and Measurements	<p>-Read Chapter 9</p> <p>-Define Chapter Words</p> <p>-Place Value File Folder Due</p> <p>-Geometry File Folder Due</p> <p>All Assignments Due: 10/21</p>	<p>5</p> <p>a, c</p>
<p>Week 10</p> <p>Week of October 21st</p> <p>Due 10/28</p>	Chapter 10	Overview of Primary Science: Life Science	<p>-Read Pages 316-339</p> <p>-Define Words on Pages 316-339</p> <p>All Assignments Due: 10/28</p>	<p>3, 4, 5</p> <p>a, c</p>
<p>Week 11</p> <p>Week of October 28th</p> <p>Due 11/4</p>	Chapter 10	Overview of Primary Science: Physical Science	<p>-Read Pages 339-350</p> <p>-Define Words on Pages 339-350</p> <p>-Chapter 10 Test</p> <p>All Assignments Due: 11/4</p>	<p>3, 4, 5</p> <p>a, c</p>
<p>Week 12</p> <p>Week of November 4th</p> <p>Due 11/11</p>	Chapter 11	Earth and Space Sciences	<p>-Read Pages 354-365</p> <p>-Define Words on Pages 354-365</p> <p>-Teach a Science Lesson to the Class (With an Activity Plan)</p> <p>All Assignments Due: 11/11</p>	<p>1, 4</p> <p>a, b, c</p>

Date/Week/Due	Chapter(s)	Content	Assignments	Competency Area
Week 13 Week of November 11 th Due 11/18	Chapter 11	Earth and Space Sciences	-Read Pages 365-375 -Define Words on Pages 365-375 -Chapter 11 Test All Assignments Due: 11/18	1, 6 a, b, c
Week 14 Week of November 18 th Due 11/25	Chapter 12	Materials and Resources: Math and Science in the Classroom and Home	-Read Chapter 12 -Define Chapter Words -Chapter 12 Test -Math Center Due (Present to Class) All Assignments Due: 11/25	1, 2 a, b, c
Week 15 Week of November 25 th Due 12/2		Wrap up and Review	-Science Center Due (Present to Class) All Assignments Due: 12/2	1, 2 a, b, c

COMPETENCY AREAS

1. Inquiry approach to learning,
2. Cognitive stages and developmental processes in developing math and science concepts with children birth to five,
3. Cognitive stages and developmental processes in developing math and science concepts with children in kindergarten and primary grades,
4. Planning math and science activities,
5. Development of math and science materials, media, and methods.

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,