This is a SouthArk Master Syllabus. The course syllabus distributed by the instructor may include additional requirements, must be followed by the student in the given term, and is considered to supersede the Master Syllabus.

Course Number
EDUC 2113

Course Title
Math for Teachers I

Course Description
Prerequisites: An ACT math score of 10 or higher (or equivalent entrance exam score), BSTD 0613, MATH 2013.

This is the entry-level course for P-8 education majors. Numeration systems from natural numbers through real numbers will be covered. The operations and properties with applications within each system will be developed as appropriate to the P-8 teacher.

College Mission
South Arkansas Community College promotes excellence in learning, teaching, and service; provides lifelong educational opportunities; and serves as a cultural, intellectual, and economic resource for the community.

College Wide Student Learner Outcomes
X Critical Thinking   X Responsibility   X Communication

ACTS Course☐ Program Course X

ACTS Outcomes

Program Outcomes
1. Demonstrate understanding of the diversity of human behavior and/or the cultural achievements emerging from one’s history.
2. Develop a possible solution to an observed or established situation in an oral or written format using standard English.
3. Plan to continue their education through reading and the expression of ideas by establishing pursuing long term educational goals.
4. Define and use appropriate and relevant terms, rules, formulas, concepts, symbols, and technology.
5. Gather and evaluate resource materials, shape them into cogent presentations, and document them correctly.
6. Acquire and apply oral, aural, physical, laboratory and written skills appropriate to each field of study.

Course Outcomes

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<th>CLO #</th>
<th>Course Outcomes</th>
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<th>Critical Thinking</th>
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<tr>
<td>CLO 1</td>
<td>Demonstrate an understanding of the importance of learning the material taught as it relates to the Common Core Standards and the Arkansas mathematics frameworks for K-8.</td>
<td>1, 2, 3, 4, 5, 6, 7,</td>
<td>4</td>
<td>CT1 C1 R5</td>
<td>Class Activities Homework Assignments Unit Test Other projects as assigned</td>
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<td>CLO 2</td>
<td>Solve mathematical problems appropriate for the elementary school mathematics curriculum, including whole numbers, integers, and rational numbers.</td>
<td>1, 2, 3, 4, 5, 6, 7,</td>
<td>2</td>
<td>CT3 C1 R5</td>
<td>Class Activities Homework Assignments Unit Test Other projects as assigned</td>
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<td>CLO 3</td>
<td>Demonstrate the ability to and importance of problem solving to the mathematics curriculum.</td>
<td>1, 2, 3, 4, 5, 6, 7,</td>
<td>4, 6</td>
<td>CT3</td>
<td>C1</td>
<td>R5</td>
<td>Class Activities</td>
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<td>CLO 4</td>
<td>Create and demonstrate a variety of techniques for understanding and solving various mathematical concepts.</td>
<td>1, 2, 3, 4, 5, 6, 7,</td>
<td>2, 6</td>
<td>CT2</td>
<td>C1</td>
<td>R5</td>
<td>Class Activities</td>
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**Unit Outcomes/ Competencies**

**General Unit Outcomes/ Course Competencies**

I. Mathematical Processes (Unit 1)
   A. Communicating Mathematically
   B. Reasoning Mathematically
   C. Mathematics in Problem Solving

II. Sets and Whole-Number Operations and Properties (Unit 2)
   A. Sets and Whole Numbers
   B. Addition and Subtraction of Whole Numbers
   C. Multiplication and Division of Whole Numbers
   D. Numeration

III. Estimation and Computation (Unit 3)
   A. Strategies and Procedures for Estimation
   B. Algorithms for Addition and Subtraction
   C. Algorithms for Multiplication and Division

IV. Number Theory (Unit 4)
   A. Factors and Divisibility
   B. Prime and Composite Numbers

V. Understanding Integer Operations and Properties (Unit 5)
   A. Addition, Subtraction, and Other Properties of Integers
   B. Multiplication, Division, and Other Properties of Integers

VI. Rational Number Operations and Properties (Unit 6)
   A. Rational Number Ideas and Symbols
   B. Adding and Subtracting Fractions
   C. Multiplying and Dividing Fractions
   D. Operations with Decimals
   E. Comparing and Ordering Rational Numbers

VII. Proportional Reasoning (Unit 7)
   A. The Concept of Ratio
   B. Proportional Variation and Solving Proportions

**Assessment Description(s)**

Class activities will depend on number of students in class and concepts being covered. They will be CCSS activities, which focus on problem solving and concept development. Unit test will be 10-30 questions, depending on amount of material covered. All questions will be short answer, problems solving, and real-world application problems.

**Materials and Technological Requirements**


Computer with reliable internet service
Recommended: Flash Drive or other electronic storage device as backup for assignment files

**Class Attendance Policy**

Students are expected to attend all classes in which they are enrolled. If a student is absent from a class session, it is the student’s responsibility to make arrangements to complete or make up any work missed. No make-up work for missed classes will be allowed without the approval of the instructor. Students who enroll late must assume all responsibility for work missed. Classes not attended as a result of late enrollment may be counted toward excessive absences. Students not attending the entire class period may be counted absent for that period. An instructor may drop students with a grade of “WE” if students have been absent for an excessive number of days. Warning letters will
be sent to the students advising them of the consequences of nonattendance and urging them to contact their
instructors immediately. Excessive absences are defined as follows:

**Regular Semester**
- Courses which meet once a week ................................................................. 2 absences
- Courses that meet twice per week .............................................................. 3 absences
- Courses that meet four times per week ..................................................... 5 absences

**Summer Session**
- Courses that meet four times per week in a five week session .................... 3 absences
- Courses which meet two evenings per week in a 10 week session ............. 3 absences

Students enrolled in special programs or individualized instruction should contact their program director/instructor
regarding specific attendance requirements for the program/course. Some of the selective-admission, health-science
programs have specific criteria regarding attendance. Students are encouraged to refer to program policies in these
matters.

**Jury Duty/Military/Official School Function**
Scheduled absences are those that occur due to college-related activities or as a result of summons to jury duty or
military duty. Classes missed as a result of scheduled absences will not be counted as excessive absences if the
instructor is notified and provided documentation prior to the absence(s). Make-up work for scheduled absences will
be at the discretion of the instructor.

In all instances, documentation must be provided to the instructor within 24 hours of receipt. Documentation should
come from an appropriate party on letterhead or other official stationery with a signature and contact information.
Documentation should list the corresponding dates of the leave.

**Medical leave**
For medical-related absences, documentation must include written notice from the treating medical professional
documenting time needed off related to medical reasons and time student may resume classes. The medical reason
does not need to be listed on the documentation; the documentation must include only that there is a medical reason,
the amount of time the student needs to be absent, and the time the student should be able to return to classes.

Students who elect to work at home while on excused leave must meet with their instructors to make arrangements to
do so. Working on coursework while on medical leave is not a requirement but can be requested by students. If
students request that they be allowed to work at home while on an excused leave, the instructor will make every
reasonable effort to ensure that the student is able to do so.

For students who have a medical condition necessitating time off or accommodation:

1) They may work at home on assignments if they choose to if on medical leave approved by a medical professional
2) Receive appropriate accommodations related to coursework (i.e., excused from labs with potentially harmful
chemicals, have a larger desk, etc.)
3) Resume their studies where they left off once they return to classes
4) Be allowed to make up any missed work related to medical leave
5) Receive incompletes on their transcripts until coursework is completed, according to the incomplete grade
contract.
6) Be given a reasonable time frame in which to complete missed coursework

**Academic Honesty Policy**
Students enrolled at South Arkansas Community College are expected at all times to uphold standards of integrity.
Students are expected to perform honestly and to work in every way possible to eliminate academic dishonesty.
Academic dishonesty includes cheating and plagiarism, which are defined as follows:

- Cheating is an attempt to deceive the instructor in his/her effort to evaluate fairly an academic exercise. Cheating
includes copying another student’s homework, class work, or required project (in whole or in part) and/or presenting
another’s work as the student’s own. Cheating also includes giving, receiving, offering, and/or soliciting information on
a quiz, test, or examination.
- Plagiarism is the copying of any published work such as books, magazines, audiovisual programs, electronic
media, and films or copying the theme or manuscript of another student. It is plagiarism when one uses direct
quotations without proper credit or when one uses the ideas of another without giving proper credit. When three or
more consecutive words are borrowed, the borrowing should be recognized by the use of quotation marks and proper
parenthetical and bibliographic notations.
If, upon investigation, the instructor determines that the student is guilty of cheating or plagiarism, the following penalties will apply:

• The student will receive a penalty of no less than a zero on the work in question.
• The instructor will submit a written report of the incident to the Vice President for Learning.
• The Vice President for Learning will determine whether further disciplinary action will be taken.
• All decisions may be appealed for review through the college’s Academic Appeals procedure.

Equal Opportunity-Affirmative Action Statement
South Arkansas Community College does not discriminate on the basis of age, race, color, creed, gender, religion, marital status, veteran’s status, national origin, disability, or sexual orientation in making decisions regarding employment, student admission, or other functions, operations, or activities.

Library Services
Library Homepage: http://southark.libguides.com/homepage Library Contact: LibraryStaff@southark.edu or 870.864.7115

Procedures to Accommodate Students with Disabilities:
If you need reasonable accommodations because of a disability, please report this to the Vice President of Student Services with proper documentation. VPSS Contact: 870.875.7262

The Early Alert System
In an effort to ensure student retention and success, South Arkansas Community College employs an Early Alert System to identify and support at-risk students as soon as possible in a given semester. The intent of Early Alert is to provide this assistance while there is still time to address behaviors or issues that have the potential of preventing students from completing their courses and degree plans. Students referred through the Early Alert System will be required to work on a corrective action plan with their student advising coach and to include attendance accountability and mandatory academic tutoring either in the academic division or in the Testing and Learning Center (TLC).

Once the Student Advising Coach has met with the referred student, and again when the student has met the prescribed corrective actions, the coach will update the Early Alert System so that the instructor is kept informed of the progress in resolving issues.

Behavioral Review Team
At South Arkansas Community College (SouthArk), we are committed to proactive leadership in student wellbeing and campus safety. By focusing on prevention and early intervention with campus situations that involve any person experiencing distress or engaging in harmful or disruptive behaviors, the BRT will serve as the coordinating hub of existing resources to develop intervention and support strategies and offer case management. Students, faculty, staff, and campus guests are encouraged to report any person on campus who is a concern. BRT Contact: 870.875.7262 BRT@southark.edu

Date of Revision: 8/30/2016