COURSE TITLE: Developmental Mathematics Modular
COURSE NUMBER: MAT 0056

COURSE DESCRIPTION (with prerequisites):
This course is designed for students whose PERT placement test scores fall slightly below the minimum score required for entry into college-level math courses, but whose diagnostic test scores indicate mastery of multiple course competencies. This course consists of student-centered computer-based interactive instruction using professionally developed mathematics instructional software, along with instructor assistance as needed. The content is presented in an individualized modular format with a focus on the competencies listed below that are identified through a diagnostic tool as needing review on an individual basis: Graphing linear equations, solving linear equations, simplifying expressions, polynomial operations, simplifying radical expressions, factoring polynomials, solving quadratic equations, applying order of operations, solving literal equations, and solving linear inequalities. Prerequisite: An appropriate score on the PERT placement test, along with an appropriate score on the PERT diagnostic test or equivalent, or consent of the department. A grade of "C" or higher must be earned in the course to advance to the next higher mathematics course which is MAT 1033. This course does not meet general education requirements in mathematics. 2 noncredit semester hours.

NAME(S) OF INSTRUCTORS:
Jo Ann Everett

EFFECTIVE ACADEMIC YEAR:
2014-15

REQUIRED TEXTBOOKS AND INSTRUCTIONAL SUPPLIES:

GRADING POLICY:
The standing of a student in each course is expressed by one of the following letters and corresponding grading system:
A – 90 – 100
B – 80 – 89
C – 70 – 79
D – 60 – 69
F – 59 or less
The Chipola Catalog provides policies and procedures regarding the grading system. A student’s Grade Point Average is derived from the grading system/quality point scale.
ATTENDANCE AND WITHDRAWAL POLICIES:
Chipola College expects regular attendance of all students. Students who are absent from classes for any reason other than official college activities must satisfy the instructor concerned that the absence was due to illness or other clearly unavoidable reasons. Otherwise, the student may suffer grade loss at the discretion of the instructor. Chipola policy allows each instructor to specify in the Instructor First Day Handout whether or not an absence is excusable and what affect the absence or tardy may have on the grade.

A student is allowed to repeat a course a maximum of three (3) times. On the third attempt a student (1) must bear the full cost of instruction (unless waived by Student Services), (2) cannot withdraw, and (3) must receive a grade.

MAKE-UP POLICY:
Chipola allows each instructor to specify in the Instructor First Day Handout the makeup policy.

ACADEMIC HONOR CODE POLICY:
Students are expected to uphold the Academic Honor Code. Chipola College’s Honor Code is based on the premise that each student has the responsibility to (1) uphold the highest standards of academic honesty in his/her own work; (2) refuse to tolerate academic dishonesty in the college community; and (3) foster a high sense of honor and social responsibility on the part of students. Further information regarding the Academic Honor Code may be found in the Chipola Catalog, Student Governance section.

STUDENTS WITH DISABILITIES POLICY:
Chipola College is committed to making all programs and facilities accessible to anyone with a disability. Chipola’s goal is for students to obtain maximum benefit from their educational experience and to effectively transition into the college environment. Students with disabilities are requested to voluntarily contact the Office of Students with Disabilities to complete the intake process and determine their eligibility for reasonable accommodations.

LIBRARY AND ON-LINE REFERENCE MATERIALS:
The library is a comprehensive learning resource center providing information in print, electronic, and multimedia format to support the educational objectives of the College. On-line catalogs, e-books and electronic databases can be accessed by using the LINCCWeb icon on the Chipola Library website at www.chipola.edu/library. If you have questions about database usage consult the “How to Use the Chipola Databases” on the Library website or call the Library at 850/718-2274 during regular hours. Library hours are posted each semester at the building entrance and on the Library website. See your Instructor First Day Handout for individual instructor recommendations and resources.

TECHNOLOGY RESOURCES:
The college’s learning management system is Canvas. Classes become available on Canvas on the first day of the semester. It is the student’s responsibility to log onto the Canvas system the first day of class to establish the first day of attendance and to check announcements. All official class communication must be through Canvas. For
further information, contact your instructor or the Director of eLearning. The Canvas support hotline is available online in live chat and on the phone, toll-free, at 855-308-2812 for any issues in accessing or utilizing Canvas. The Information Technology Center, located in the library, is equipped with computer workstations. Lab hours are posted each semester at the building entrance and on the Library website.

**TUTORING RESOURCES:**
Chipola College has contracted Smarthinking, a Pearson Company, for online tutoring services, accessible especially from 5 p.m. to 8 a.m. It can be accessed through Canvas. Additionally, the Academic Center for Excellence (ACE) Lab, located in Building L, offers free tutoring from 8 a.m. to 5 p.m. and is equipped with computer workstations. Lab hours are posted each semester at the room entrance.

**ELECTRONIC DEVICE USAGE:**
All electronic devices such as cell phones, beepers, pagers, and related devices are to be silenced prior to entering classrooms and/or laboratories to avoid disruption. Should it become necessary for a student to leave his/her “device” on to send or receive an emergency call and/or text message, the student must inform the instructor prior to class. If the student finds it necessary to send and/or receive an emergency call and/or text message during class/lab time, he/she is instructed to take all books and belongings and step outside the classroom to deal with the situation. To minimize classroom disruption and the distraction to classmates, the student will not be permitted to reenter the classroom during that class period. Any time a test is being administered, all such devices must be turned off and put away. If a device is seen or heard during an exam, a score of zero will be given for that exam. Initial and repeated infractions may result in disciplinary action.

**DISCIPLINE SPECIFIC COMPETENCIES / LEARNING OUTCOMES:**
Demonstrate Basic Mathematical Skills and Knowledge

M-1 Apply arithmetic, algebraic, or geometric skills to solve mathematical problems.

M-2 Represent basic mathematical information verbally, numerically, graphically, or symbolically.

M-3 Use technology to solve mathematical problems.

M-4 Interpret mathematical models such as formulas, graphs, tables and schematics.

M-5 Use mathematical processes in solving real world applications.

**MAT 0056 is not a General Education core course and therefore a student in MAT 0056 will demonstrate selected learning outcomes from this list.**
LINKING COURSE-LEVEL STUDENT LEARNING OUTCOMES WITH DISCIPLINE-SPECIFIC COMPETENCIES, ASSESSMENT METHODS, AND ARTIFACTS

<table>
<thead>
<tr>
<th>COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR MAT 0056</th>
<th>DISCIPLINE-SPECIFIC GENERAL EDUCATION COMPETENCIES</th>
<th>ASSESSMENT METHODS FOR COURSE LEVEL STUDENT LEARNING OUTCOMES</th>
<th>ARTIFACTS FOR AA PROGRAM ASSESSMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Calculate using real numbers</td>
<td>M-1, 3</td>
<td>Pre/Post, CF</td>
<td>No artifact will be submitted for program assessment as MAT 0056 is not a course that earns college credit.</td>
</tr>
<tr>
<td>• Determine solutions for linear and quadratic equations</td>
<td>M-1, 3</td>
<td>Pre/Post, CF</td>
<td></td>
</tr>
<tr>
<td>• Apply more than one method to construct a graph of linear equations</td>
<td>M-1, 2, 3, 4</td>
<td>Pre/Post, CF</td>
<td></td>
</tr>
<tr>
<td>• Change algebraic expressions into equivalent forms</td>
<td>M-1, 3</td>
<td>Pre/Post, CF</td>
<td></td>
</tr>
<tr>
<td>• Use various operations to simplify algebraic expression</td>
<td>M-1, 3</td>
<td>Pre/Post, CF</td>
<td></td>
</tr>
<tr>
<td>• Make use of mathematical concepts to solve real-world problems</td>
<td>M-1, 3, 5</td>
<td>Pre/Post, CF</td>
<td></td>
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</tbody>
</table>

**Assessment Codes**

- **T** = Tests
- **Pre/Post** = Pre- and Post-Tests
- **OT** = Objective Tests
- **UT** = Unit Tests
- **Q** = Quizzes
- **F** = Final Examination
- **CF** = Cumulative Final
- **EX** = Departmental Exam
- **SE** = Nat'l or State Standardized Exam
- **RPT** = Report/Presentation
- **SP** = Skills Performance
- **SD** = Skills Demonstration
- **W** = Writing Assignments
- **E** = Essays
- **DE** = Documented Essays
- **RP** = Research papers
- **J** = Jury
- **R** = Recital
- **Proj.** = Projects
- **Exp.** = Experiments
- **Cap. Proj.** = Capstone Project
- **Cap. Course** = Capstone Course
- **Prac.** = Practicum
- **Intern.** = Internship
- **H** = Homework
- **PS** = Problem Solving
- **DB** = Discussion Board
- **BO** = Behavioral Observation
- **Clin.** = Clinicals
- **CS** = Case Study
- **CP** = Case Plan
- **Port.** = Portfolio
- **Obs.** = Teacher Observation
- **Sk. Check** = Skills Check-off
- **Curriculum Frameworks**
- **JP** = Judged
- **Performance/Exhibition**

MEANS OF ACCOMPLISHING STUDENT LEARNING OUTCOMES:

This course consists of student-centered computer-based interactive instruction using professionally developed mathematics instructional software, along with instructor assistance as needed. The content is presented in an individualized modular format with a focus on the competencies listed below that are identified through a diagnostic tool as needing review on an individual basis. This course has been broken down into six units, each containing a pre-test, computerized practice material (homework), and a post-test. Pre-tests are diagnostic and students may earn homework credit though pre-testing. However, the pre-test grade will not count toward the semester grade. Students must then complete the remaining assignments and take a post-test for each unit.
ASSIGNMENT AND/OR COURSE OUTLINE

Grade Distribution:
The course grade will be determined by averaging together six post test scores (70%), final exam (10%), homework (20%).

Course Outline:
Order of Operations with Parenthesis and Exponents
• Simplify Expressions with Integer Exponents
• Evaluate Algebraic Expressions
• Add, Subtract, and Multiply Polynomials
• Solve Quadratic Equations by Factoring
• Factor Polynomials
• Solve and Graph Linear Equations
• Solve Literal Equations
• Simplify Radical Expressions
• Add, Subtract, Multiply and Divide Radical Expressions
• X and Y Intercepts
• Slope
• Solve and Graph Linear Inequalities
• Simplify Rational Expressions
• Add, Subtract, Multiply, and Divide Rational Expressions

See your Instructor First Day Handout for individual instructor assignment schedule.