COURSE SYLLABUS
MTH 092F – Elementary Algebra-Fast Paced

Name: Bernice Bloodsworth
Phone Number: 410-334-2818  E-mail: bbloodsworth@worwic.edu
Office: By Appointment Only

I.  COURSE DESCRIPTION:
This course focuses on solutions to linear equations and inequalities, algebraic applications, operations with polynomials, factoring, graphing linear equations, and solving systems of equations. This course does not meet general education mathematics requirements. This class meets for fifteen lecture and five lab hours per week. Prerequisite: MTH 091 or acceptable mathematics assessment scores. This course is usually offered in the fall, spring, and summer.

II. COURSE MATERIALS:
Students are required to have an access code for MyMathTest, a graphing calculator TI-83 plus or the TI-84, and a separate math notebook.

III. COURSE GOALS:
The overall goal for this course is to develop the algebra skills required for further academic study. Students will be able to advance to MTH 099 -Intermediate Algebra during their next semester. Note: (THIS COURSE DOES NOT MEET THE GENERAL EDUCATION MATHEMATICS REQUIREMENTS).

IV. COURSE OBJECTIVES AND ASSESSMENT GOALS, AND ASSESSMENT STRATEGIES:
Upon successful completion of the course, students will demonstrate the ability to:

<table>
<thead>
<tr>
<th>COURSE OBJECTIVE</th>
<th>ASSESSMENT GOAL</th>
<th>ASSESSMENT STRATEGIES</th>
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<tbody>
<tr>
<td>1. Use properties of real numbers to perform basic operations.</td>
<td>A. Given any set of real numbers, perform addition, subtraction, multiplication and division using the order of operations.</td>
<td>Class and Math Lab exercises, test questions and exam questions</td>
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<td></td>
<td>B. Given a solution, insert notation and grouping symbols to obtain the solution.</td>
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<td></td>
<td>C. Perform calculations with exponents.</td>
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<td></td>
<td>D. Use the calculator to check answers.</td>
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<tr>
<td>2. Simplify algebraic</td>
<td>A. Distinguish between</td>
<td>Class and Math Lab</td>
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</tbody>
</table>
| 3. | Solve linear equations and inequalities | A. Solve and check solutions to linear equations that may contain fractions, decimals, and parentheses.  
B. Solve and check equations that may have all real number solutions or no solution.  
C. Solve and graph inequalities.  
D. Given a literal formula, solve for the specified variable.  
E. Check all solutions using the calculator. | Class exercises, Math Lab exercises, test exercises and exam questions. |
| 4. | Translate phrases and word problems into algebraic expressions and equations. | A. Solve word problems by translating English phrases into algebraic expressions.  
B. Solve word problems using comparison, money and percent values.  
C. Use geometric formulas to solve problems.  
D. Apply the problem solving procedure for solving problems. | Class and Math Lab exercises, test exercises and exam questions. |
| 5. | Graph linear equations and inequalities. | A. Given the coordinates, plot points on the Cartesian coordinate system.  
B. Identify and use vocabulary terms and notation associated with the Cartesian coordinate system.  
C. Given the equation, calculate a set of three ordered pairs.  
D. Distinguish between linear and nonlinear equations.  
E. Given an equation, find the intercepts.  
F. Use the calculator to graph lines and obtain a set of points.  
G. Given an inequality, choose a | Class and Math Lab exercises, test exercises and exam questions |
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| 6. | Calculate and interpret slopes. | A. Given two points, find the slope.  
B. Given an equation, find the slope.  
C. Interpret the slope geometrically and algebraically.  
D. Given equations, find the slopes and determine if lines are parallel, perpendicular or neither. | Class and Math Lab exercises, test questions and exam questions |
| 7. | Find the equation of a line | A. Given a slope and intercept, write an equation.  
B. Given two points, write an equation.  
C. Given appropriate data, use the linear regression function on the calculator to write and equation. | Class and Math Lab exercises, test questions and exam questions |
| 8. | Use function notation | A. Given coordinates or a graph, determine if a relation is a function.  
B. Use function notation and vocabulary to evaluate and graph curves.  
C. Determine the domain and range. | Class and Math Lab exercises, test questions and exam questions |
| 9. | Solve systems of equations. | A. Given two equations in two variables, graph two linear equations and determine the point of intersection.  
B. Solve simultaneous equations by substitution and by elimination.  
C. Check solutions using the calculator. | Class and Math Lab exercises, test exercises and exam questions |
| 10. | Perform operations with exponents and polynomials | A. Use the rules of exponents to perform adding, subtracting, multiplying and dividing with exponents.  
B. Raise exponential expressions to powers.  
C. Use negative exponents.  
D. Write numbers in scientific notation; perform operations | Class and Math Lab exercises, test questions and exam questions |
V. COURSE CONTENT:
   1. Review of real numbers
   2. Equations, Inequalities, and Problem Solving
   3. Exponents and Polynomials
   4. Factoring
   5. Graphs and Functions
   6. Solving Systems of Linear Equations

VI. LEARNING EXPERIENCES:
In order to meet the course objectives, each student is expected to:
   A. Attend class and participate in class discussions, learning activities and assignments.
   B. Complete homework assignments
   C. Complete tests and quizzes for each unit of study
   D. Perform satisfactorily on the final exam

VII. GENERAL REQUIREMENTS:
Each student will pursue a program of study that includes classroom lectures, problem practicing, cooperative learning, textbook and writing assignments using electronic databases, chapter testing and Math Lab exercises.

VIII. MATH LAB (AAB 227)
Math Lab Additional lab experience IS REQUIRED to reinforce skills introduced in class and to master additional calculator techniques. Specific assignments will
be listed on the Study Plan in MyMathTest. Students will have the chance to
complete lab assignments at locations other than the math lab with instructor
approval. Lab instructors are available to assist students with lab work,
homework and projects.

**MATH LAB HOURS**

**Summer 2010**
**Room 227 AAB**

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Monday &amp; Wednesday</td>
<td>8:30 am – 5:30 p.m.</td>
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<tr>
<td>Tuesday &amp; Thursday</td>
<td>8:30 a.m. – 8:00 p.m.</td>
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<tr>
<td>Friday</td>
<td>8:30am – 12:00 noon</td>
</tr>
<tr>
<td>Saturday</td>
<td>Closed</td>
</tr>
<tr>
<td>Sunday</td>
<td>12 noon – 4 p.m.</td>
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</tbody>
</table>

Withdrawal: A student may choose to withdraw from a course for individual
reasons at any time prior to the posted date for the “Last Day To Withdraw”.
If you have made the decision to withdraw from the course, please complete
the necessary paperwork; do not rely on me to do it for you. After the posted
withdraw deadline, all students still on the course roster MUST be given
a letter grade in the course.

IX. **POLICIES REGARDING ATTENDANCE, LATENESS, HOMEWORK ASSIGNMENTS, LAB ASSIGNMENTS, AND TESTING:**

1. **Attendance policy** – Students are expected to attend all class sessions, be there on time, and stay for the entire duration of the class. Students are also expected to attend the math lab regularly during the lab hours that are listed on the syllabus, to complete the lab requirements. Students are expected to come prepared for class with notebook, paper, pencils, calculator, textbook, and software that accompanies the textbook, as well as completed assignments to turn in for a grade. If an emergency arises and the student cannot attend the class the student is expected to contact the instructor by phone or email and make arrangements to turn in the assignment that is due that day.

2. **Lateness and Leaving Early** – In order to get the most out of this class students are expected to be on time to classes and contact the instructor in advance if there is an emergency that will cause the student to be late, or need to leave early. Contact can be made by voice mail or phone at the numbers listed on the front page of this syllabus. Treat this as a professional appointment, plan around it, and do not schedule a doctor or dentist appointment during this time.

3. **Homework Assignments** – Assignments are given every class session and will be due the following class session. Keep in mind that the amount
of time needed to devote to any college class requires the ratio of 2 to 3 hours outside of class to every 1 hour you spend in class. Late assignments will be given no credit. It is important that you keep up with the assignments since the progression from one unit to the next requires a good understanding of each previous unit in the progression. **Homework assignments are 25% of your grade in the course.**

4. **Lab Assignments** – Students are expected to attend Math Lab for the time needed to complete the weekly course work. Student may use the MyMathTest website at home or in the math lab to complete lab assignments. When coming to the math lab make sure you sign in using the computer by the door. Your instructor will be monitoring your lab visits and your computer assignments in order to see that you are making progress in the course. **Lab assignments are 35% of your grade in the course.**

5. **Testing policy** – You are expected to be present every scheduled test and be ready to take the test. If you are unable to be present due to an emergency, you must call or e-mail your instructor **no later than the date of this test.** The phone number and e-mail address are listed on the front of this syllabus. If you do not contact your instructor by the end of the test date, you will receive a **zero** on the test. If you are granted permission to take a make-up test, you are required to make-up the test by the next class session. Plan to leave a phone number or an e-mail address where you can be contacted to make those arrangements. Do not assume that it is acceptable to take a make-up test until you have spoken with me in reference to the reason for your not being present on the date of the test. **Your test average is 40% of your grade in this course.**

6. **Electronic Devices** – It is disruptive to the learning of the students in the classroom to be interrupted by the beeps, rings, and hums of electronic devices in the classroom. For the 3 hours we are together I ask that you turn off and put away pagers, phones, head phones, and electronic devices.

7. In the event of a flu epidemic or other emergency that results in the rearranging of the class schedule, faculty will be communicating with students about their courses and course requirements, such as assignments, quiz and exam dates, and class grading policies, via faculty websites or BlackBoard. Students will be responsible for completing all these assignments in accordance with class policies. Information about the resumption of classes will be communicated via the College’s website and e-mail system.

X. **COMMUNICATIONS:**

When communicating by e-mail with any instructor, it is expected that students write memos and letters in proper written English. E-mails are to include the student name in the subject area of the sending form. Letters are to include the date, greeting, body, and closing. Instructors may limit the number of e-mails requesting missed work; students are responsible for contacting other students in the class for their assignments.
XI. EVALUATION AND GRADING:
Tests and Quizzes 30%
Homework/Participation 20%
Math Lab Assignments 30%
Final Exam 20%

The grade report will list one of the following:
A  92% - 100%
B  83% - 91%
C  75% - 82%
R  70% - 74%  Reregister – The student is required to register for MTH 099 the following semester. If the student does not register for MTH 099 the following semester the R automatically becomes an F.
F  69% or below

XII. TENTATIVE CLASS SCHEDULE:
The following is a general course schedule:

<table>
<thead>
<tr>
<th>Day</th>
<th>Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Module 1 – Review of Basic Math</td>
</tr>
<tr>
<td>1</td>
<td>Module 2 – Real Number System</td>
</tr>
<tr>
<td>2,3</td>
<td>Module 3 – Equations and Inequalities</td>
</tr>
<tr>
<td>4,5</td>
<td>Module 4 – Graphing Linear Equations &amp; Systems of Equations</td>
</tr>
<tr>
<td>6, 7</td>
<td>Module 5 – Exponents and Polynomials</td>
</tr>
<tr>
<td>8,9,10</td>
<td>Module 6 – Factoring</td>
</tr>
</tbody>
</table>

XIII. CLASSROOM CONDITIONS:
Appropriate classroom behavior is expected of all college students. If any behavior disrupts other students from the task of learning, this behavior will not be acceptable in a college classroom. Examples of such behavior include talking loudly or out of turn, monopolizing a discussion, making disrespectful comments, coming in late or leaving early. The code of student conduct is detailed in the College catalog. Violations of this policy will be documented. Disciplinary actions may include meetings with the instructor and/or the department head, submission to the Student/Faculty Disciplinary Committee, probation, suspension and dismissal.

XIV. ACADEMIC INTEGRITY:
Academic integrity is expected of all students. Cheating and plagiarism are violations of academic integrity. Any student found violating the academic policy
will receive an automatic “0” for the assignment and then the matter will be turned over to the Student Disciplinary Committee.

Plagiarism: In both oral and written communication, the following guidelines for avoiding plagiarism must be followed:

1. Any words quoted directly from a source must be in quotation marks and cited.
2. Any paraphrasing or rephrasing of the words and/or ideas of a source must be quoted.
3. Any ideas or examples derived from a source that are not in the public domain or of general knowledge must be quoted.
4. **ALL PAPERS AND PRESENTATIONS MUST BE THE STUDENT’S OWN WORK.**

There are ambiguities in concepts of plagiarism. Each instructor will be available for consultation regarding any confusion a student may have.

Cheating: Cheating is the act of obtaining information or data improperly, or by dishonest or deceitful means. Examples of cheating are copying from another student’s test paper, obtaining information illegally on tests, and using crib notes or other deceitful practices. The college guidelines concerning academic misconduct will be strictly enforced in this course. Please refer to the Appendix of the current catalog for the full description of policies pertaining to student conduct.”

**XV. Emergency on campus:** In the event of a flu epidemic or other emergency that results in the suspension of classes, faculty will be communicating with students about their courses and course requirements, such as assignments, quiz and exam dates, and class and grading policies, via faculty websites or Blackboard. Students will be responsible for completing all these assignments in accordance with class policies. Information about resumption of classes will be communicated via the College’s website and email system.
DDF 5/18/2010