**MERCER UNIVERSITY – COLLEGE OF CONTINUING AND PROFESSIONAL STUDIES**

**Math120.1D1 – Basic Algebra**

**Spring 2009, Session 1, Douglas Academic Center**

**Monday 5:30 pm - 9:45 pm**

**Professor: Greg A. Baugher, M. S. T.**

**Phone: 770-489-9140 (home) or 404-353-8734 (cell)**

**Email:** **Baugher\_GA@Mercer.edu**

Office Hours: Douglas Center: Monday – 4:00 PM – 5:30 PM, also a half hour after class if necessary.

 Wednesday – 4:00 PM – 5:30 PM.

For Help: Other nights call my Cell # or Home Phone 4:00- 9:30 PM. In-person appointments available.

**COURSE DESCRIPTION:**

This course will introduce students to algebraic reasoning by exposing them to algebra topics including solving linear, quadratic, and rational equations, operations with exponents, polynomials, and rational expressions, factoring, graphing, systems of equations, radicals, relations and functions.

**Prerequisite: Students enrolled in this course must possess** **basic math skills and are encouraged to take FDLS115 if they lack these skills.**

**COURSE OBJECTIVES:** (Primary Objectives) The student will…

1. develop mathematical reasoning and understanding of algebraic concepts.
2. develop a healthy attitude toward learning mathematics and grow in confidence of his or her math ability.
3. search for and apply mathematical evidence to verity one's conclusions.
4. solve various types of problems in the realm of Algebra.
5. appropriately use technology (graphing calculators) for enhancing learning without becoming dominated by the technology to the exclusion of mathematical reasoning.

**COURSE PHILOSOPHY:**

We, the mathematics faculty at the Regional Academic Centers of Mercer University, are true believers in students' abilities to learn and do mathematics. Our task is to help you overcome your anxieties and fears of mathematics as a subject in order to make the complicated simple. Our goal is to help you open up to new and positive experiences with mathematics.

Helping you to reshape your perspectives about mathematics as a subject and about yourselves as learners and doers of mathematics is a challenging undertaking. We fully recognize the challenge and we take it seriously. We are committed to teaching you how to learn the subject by keeping you focused, helping you with study and communication skills, and providing you with clear explanations. It is our hope that we can inspire you with our passion toward the subject. We realize that when we engage your whole being, you begin to feel special and capable. We are proud to have you at the regional centers of Mercer University; we are proud to have you as one of our students.

**REQUIRED TEXT and Other Materials:**

 1. *Pre-algebra and Introductory Algebra, 2nd* Ed., Martin-Gay, Elayn. Pearson Education., Inc.: Upper Saddle River, NJ, 2008.

 2. Scientific calculator (example is TI-30) is recommended.

A 90-100 B+ 87-89 B 80-86 C+ 77-79

C 70-76

D 60-69

F < 60

**GRADING SCALE:** Grades will be assigned according to the following scale:

**EVALUATION CRITERIA:**

Grades are based upon weighted averages of problem sets, quizzes, midterm exam, and cumulative final exam. The weights are:

 Weight Date

Problem Sets (all assignments collected) 16% See due dates on Assignment Schedule below.

Quizzes (4) 24% Quizzes will be on Weeks 2, 3, 6 and 7.

Midterm Exam 25% Week 4, February 9, 2009

Comprehensive Final Exam 35% Week 8, March 9, 2009

**INSTRUCTIONAL DESIGN:**

The lessons will be presented in a combination of interactive lecture, demonstration or discovery learning, and guided practice. Many examples of problems will be worked in class. It is of great importance that all classes are attended and that any assigned readings and problem sets be completed on a prompt and regular basis. Students that have worked problems will benefit the most from classroom instruction. Students who have difficulty comprehending the material or knowing how to complete the problem sets should use the Math Lab regularly.

**DISABILITY STATEMENT:**

Students with a documented disability should inform the instructor at the close of the first class meeting or as soon as possible. If you are not registered with Disability Services, the instructor will refer you to the Disability support Services for consultation regarding documentation of your disability and eligibility for accommodations under the ADA/504. To receive accommodations, eligible students must provide each instructor with a "Faculty Accommodation Form" from Disability Services. Students must return the completed and signed form to the appropriate office. Students with a documented disability who do not wish to use academic accommodations are also strongly encouraged to register with Disability Services and complete a Faculty Accommodation Form each semester. For more information, contact: Rich Stilley, Assistant Dean for Campus Life, at 678 547-6823 or email Stilley\_R@Mercer.edu or visit the Web site at [www.mercer.edu/stusupport/swd.htm.](http://www.mercer.edu/stusupport/swd.htm.)

**MERCER UNIVERSITY HONOR CODE AND COUNCIL:**

Mercer University expects every student to maintain the highest principles of academic honesty and integrity. Violations of academic honesty represent a breach of the University's expectations and will be regarded as serious.

**PLAGIARISM AND CHEATING:**

Copying work from other students, looking at another student's paper during a quiz or test, using unauthorized notes during a test or any other form of cheating will not be tolerated. Cell phones must not be used during a test for any reason and must be turned off during a test or exam. The use of ideas, facts, phrases, or additional information such as diagrams, from any sources, without giving proper credit to the original author is cheating. Using direct quotations, paraphrases, or reproductions of any material, which is not of the student's own authorship, is considered plagiarism. Failure to reference any material is both ethically and legally improper. Any student found guilty of cheating during a quiz or exam will automatically be awarded a grade of zero for the test or exam.

**PROBLEM SETS:**

Problem sets are due on designated dates and must be handed to the professor in person and may not be emailed or faxed. Copying work from other students to hand it in as your own work is cheating and will result in a zero for that assignment. Students may not "work together" to do assignments, although occasional discussion or help from another student on a small percentage of the problems is allowed. The grade on problems sets will generally reflect the student's own individual effort and understanding gleaned from class lessons. Work must be shown to receive credit for doing the problems.

**ATTENDANCE:**

Due to the accelerated nature of this course, class attendance is required. Only one absence, for whatever reason, will be allowed. More than one absence will result in the student being awarded an F in the course, no matter what the reason. All exams must be completed on the day scheduled. Exceptions to the above will be granted only in **extreme emergency** circumstances and make-up exams will be administered according to Mercer University policy. Assignments one week late will be granted reduced credit, and beyond one week late, the assignment may be granted no credit.

\*\*\*\*This course syllabus provides a general plan for the course; deviations may be necessary. \*\*\*\*

**Math120 – Assignment Schedule for Spring ’09 Pre-Algebra & Intro. Algebra, Martin-Gay**

Assignment 1 (Due Week 2)

3.1 p.168-170/l0-70(by5's),80 3.2 p. 179-180 / 20-85 (by 5's)

3.3 p. 188-189/20-70 (by 5's)

3.4 p. 196-198/15-40 (by 5's)

6.1 p. 419-422/7,12,17,22,27,32,37,42,58

6.2 p. 431-433 /20-45 (by 5's), 51, 69, 74,84

 6.3 p. 440-441 /5-45 (by 5's)

Optional: p. 208-209 (Ch. 3 Test)

Assignment 2 (Due Week 3)

6.4 p. 448-449/5-45 (by 5's) 6.5 p. 458-459/3-15 (by 3 's)

6.6 p. 467-468 / 3-15 (by 3's), 25, 30 6.7 p. 474-475 / 3-21 (by 3's)

9.2 p. 664-666/5-70 (by 5's), 93-97 all 9.3 p. 673 /5-35 (by 5's)

9.4 p. 684-686/6-18 (by 3's), 24

9.5 p. 696-698/5,10,15,20,24,26,34

Optional: p. 485-486 and p. 721-722 (Ch. 6 and Ch. 9 Tests)

Assignment 3 (Due Week 4)

10.1 p. 734-736/5-85 (by 5's)

10.2 p. 743-745/5-35 (by 5's), 60-90 (by 5's) 10.3 p. 753-754/5-60 (by 5's)

10.4 p. 760-762/5-45 (by 5's), 60, 65 10.5 p. 767-768/5-50 (by 5's), 71

10.6 p. 775-776/5-65 (by 5's)

10.7 p.784/4,5,9,11

Optional: p. 796-797 (Ch. 10 Test)

Assignment 4 (Due Week 6)

11.1 p. 808-809 / 5-70 (by 5's)

11.2 p. 816-817 / 5-60 (by 5's)

11.4 p. 828/5-35 (by 5 's)

11.5 p. 834-835/5-65 (by 5's)

11.6 p. 845-846/5-50 (by 5's)

11.7 p. 854-856 / 3-15 (by 3's), 24, 27

Optional: p. 866-867 (Ch.11 Test)

Assignment 5 (Due Week 7)

13.1 p. 953-957/1,3-27 (by 3's), 37, 40, 41 13.2 p. 966-969/5-35 (by 5's)

13.3 p. 976-979/3, 5-35 (by 5's), 55, 56

13.4 p. 991-993 /3-30 (by 3's), 48, 49,51,57 13.5 p. 1002-1005/5-35 (by 5's), 60

 13.6 p. 1014-1015/1,5,11,15,22,23,29, 33,36,40

Optional: p. 1049-1051 (Ch.13 Test)

Assignment 6 (Due Week 8)

14.1 p. 1060-1062/5-30 (by 5's)

14.2 p. 1071-1073/5,10,15,18,33

14.3 p. 1078/5 - 25 (by 5's)

14.4 p. 1088-1090/9,10,15,20

15.6 p. 1146-1147/3,6,9, 18,20

16.1 p. 1165/5,15,25,35,45

16.3 p. 1178/15,25,30

Optional: p. 1100/ #1-10,21,22 (Ch.14 Test)

p. 1156-1157/ #1-14,30-31 (Ch. 15)

p. 1200/ #1-4,7-15 (Ch.16 Test)