

SYLLABUS FOR MAT 050, BASIC ALGEBRA

- BASIC ALGEBRA
- INSTRUCTOR: BOB HERRON
- E-MAIL ADDRESS: bobherron@insightbb.com
- MAT 050, Section #521
- SUGGESTED TEXT/CURRICULUM MATERIALS: Bittinger. Introductory and Intermediate Algebra.
- PREREQUISITES: Demonstrated competency through appropriate assessment or earning a grade of “C” or better in MAT 044, Mathematics
- DIVISION: General Education
- PROGRAM: Academic Skills Advancement
- CREDIT HOURS: 3
- CONTACT HOURS: LECTURE: 3
- DATE OF LAST REVISION: Spring, 2005
- EFFECTIVE DATE OF THIS REVISION: Fall, 2005
- CATALOG DESCRIPTION: Reviews signed numbers and basic linear equations. Concentrates on integer exponents, scientific notation, linear equations and inequalities, literal equations, polynomial operations, polynomial factoring, graphing linear equations, and applications.
- MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:
 1. Use order of operations with signed numbers.
 2. Use properties of integer exponents and scientific notation.
 3. Simplify and evaluate algebraic expressions.
 4. Solve linear and literal equations.
 5. Graph linear equations.
 6. Understand and use the concept of slope.
 7. Solve and graph linear inequalities in one variable.
 8. Perform basic operations with polynomials.
 9. Factor polynomial expressions and use factoring to solve simple quadratic

equations.

10. Use relevant mathematical terminology, laws, and notation.
11. Solve a variety of application problems in the above areas.
12. Use a scientific and/or graphing calculator proficiently as related to coursework.
13. Use computer technology, which may include the Internet, the Web, email, or computer tutorials to enhance the course objectives.

- COURSE CONTENT: Topical areas of study include

Signed numbers	Polynomial operations
Linear equations	Polynomial factoring
Integer exponents and scientific notation	Graphs of linear equations
Linear inequalities	Applications
Literal equations	

- METHOD(S) OF INSTRUCTIONAL DELIVERY: Basically a lecture class with many examples and discussion. A lot of in-class work.
- METHOD(S) OF EVALUATION: 3 Exams (100pts each), Homework (15pts each), Attendance (10 pts each session), Final Exam (200pts)
- GRADING SCALES: 90-100(A), 80-89(B), 70-79(C), 60-69 (D), Below 60 (F)
- ATTENDANCE POLICY: I expect you to attend all classes. If you get behind, especially in math, it is very hard to catch up.
- MAKE-UP POLICY: I will allow one make-up test. If you know you will be absent for class, please e-mail me at the above address as soon as possible.
- LAST DATE TO DROP COURSE WITHOUT GRADE: November 11, 2005
- NAME AND LOCATION OF THE DISABILITY COORDINATOR: Desiree Polk-Bland, Ivy Tech State College, 2325 Chester Blvd., Richmond, IN. --- Telephone #'s, 765-966-2656 Ext. 334, 1-800-659-4562
- RIGHT OF REVISION STATEMENT: The instructor reserves the right to reverse this outline/syllabus at any time during semester.
- ACADEMIC HONESTY STATEMENT:

The College is committed to academic integrity in all its practices. The faculty value intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality and diminish the value of educational achievement.

Cheating on papers, tests or other academic works is a violation of College rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other

academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

- **ADA STATEMENT:**

Ivy Tech State College seeks to provide effective services and accommodations for qualified individuals with documented disabilities. If you need an accommodation because of a documented disability, you are required to register with Disability Support Services at the beginning of the semester. If you will require assistance during an emergency evacuation, notify your instructor immediately. Look for evacuation procedures posted in your classrooms.

Basic Algebra MAT 050

Date	Session	Assignment Selected Prob (Every other odd problem)
August 23, 2005	1	R.6, 1.1,1.2,1.3,1.4
August 30, 2005	2	1.5, 1.6, 1.7, 1.8 (Summary)
September 6, 2005	3	2.1, 2.2, 2.3, 2.4
September 13, 2005	4	2.5, 2.6, 2.7, 2.8
September 20, 2005	5	TEST 1
September 27, 2005	6	3.1, 3.2 3.3, 3.4
October 4, 2005	7	4.1, 4.2, 4.3, 4.4
October 11, 2005	8	4.5, 4.6, 4.7, 4.8
October 18, 2005	9	Review
October 25, 2005	10	TEST 2
November 1, 2005	11	5.1, 5.2, 5.3, 5.4
November 8, 2005	12	5.5, 5.6, 5.7, 5.8, 5.9
November 15, 2005	13	Review
November 29, 2005	14	TEST 3
December 6, 2005	15	FINAL REVIEW
December 13, 2005	16	FINAL

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