

COURSE SYLLABUS
MAT 050 BASIC ALGEBRA
Ivy Tech State College
Richmond, IN

Instructor: Krista Morisen

Instructor Phone: to be determined

Instructor Email: Kmorisen@ivytech.edu; morisekl@muohio.edu

Office and Hours: One hour prior to class in the classroom

Course Title: Basic Algebra

Course Number and Section: MAT 050

Prerequisites: MAT 044 Mathematics with C or higher; demonstrated competency through appropriate assessment

Division and Program: General Education and Support Services/Academic Skills Advancement

Credit Hours: 3

Contact Hours: 3 (Lecture)

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. A developmental algebra 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/graphic 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:

Topics will include but are not limited to:

- | | |
|---|----------------------|
| Signed numbers | Linear equations |
| Integer exponents and scientific notation | Linear Inequalities |
| Polynomial operations | Polynomial factoring |
| Graphing linear equations | Applications |
| Literal Equations | |

Text: Bittinger, M.L., & J.A. Beecher, 2003, *Introductory and Intermediate Algebra*, 2nd Ed.: Addison-Wesley, Boston, MA, 1021 pp.
ISBN: 0-201-117341-4.

Required Materials:

- A calculator—Scientific or Graphing
- Pencils
- Graph Paper—4, 5 or 10 squares per inch

Instructional delivery method and evaluation:

Students will receive instruction through in class lecture and all evaluations will be based on midterm and final examinations as well as quizzes that may be given at the conclusion of any class periods. The student will also provide a final term project that is associated with algebra and is written in a term paper style. Class participation and attendance will also be factored into the students final grade. Though homework assignments will be given, these are not to be handed in unless requested. Grades will stand unless the student can provide written evidence of an error by the instructor.

Grading Scale:

Midterm Examination (50 pts).....	35%
Final Examination (50 pts).....	35%
Project (50 pts each).....	20%
Class Participation (50 pts).....	10%
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Total (200 pts total).....	100%

Grades Defined:

The following scale will be used to define how the letter grades will be assigned.

- A:** 100-90%
- B:** 89-80%
- C:** 79-70%
- D:** 69-60%
- F:** Below 60%

Internet/Blackboard Policy:

Assignments will be posted on Blackboard. Any discussion and/or extra credit problems will also be posted on Blackboard.

It is also suggested that the students utilize each other as study aids. This can be done by logging onto Blackboard and checking the discussion boards. Students can post questions or answers to other students questions on this discussion board.

Attendance Policy:

Students are expected to attend all classes and remain for the entire class. Attendance will be taken and quizzes will be given at the conclusion of each class. These quizzes will cover any material covered during the class.

If the student needs to be excused, they are required to notify the instructor through email correspondence and should include a valid excuse for the absence. These include, but are not limited to, Illness, Death in Family, Military Obligations, Work Obligations. If the student is a member of a volunteer fire service or emergency service organization, a valid may include a working fire, medical call, etc. However, it is asked that the student provide some proof of this situation, such as a note from your chief officer.

Make-up Policy

A student excused for any of the above reasons, may request to make-up the work missed. This may include extra homework or additional work as needed. This may also include a one-on-one or two session to catch up any work missed.

Last Day to Drop:

The last day you can drop this class, as listed in the college bulletin is November 11, 2005.

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 behaviour that, in the judgement 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 behaviour.

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.

REVISIONS TO THE SYLLABUS:

The syllabus, wholly or in part, is subject to change at any time.

TOPICS, ASSIGNMENTS AND SCHEDULE

Class Period	Sections to be covered	Assignment
1	Sections 1.1, 1.2, 1.3, 1.4	To be determined
2	Sections 1.5, 1.6, 1.7, 1.8	To be determined
3	Sections 2.1, 2.2, 2.3	To be determined
4	Sections 2.4, 2.5, 2.6, 2.7, 2.8	To be determined
5	, Sections 3.1, 3.2	To be determined
6	Sections 3.3, 3.4	To be determined
7	Sections 4.1, 4.2, 4.3	To be determined
8	Mid-term Examination	Chapters 1-3
9	Sections 4.4, 4.5	To be determined
10	Sections 4.6, 4.7, 4.8	To be determined
11	Sections 5.1, 5.2	To be determined
12	Sections 5.3, 5.4, 5.5	To be determined
13	Sections 5.6, 5.7	To be determined
14	Sections 5.8, 5.9	To be determined
15	Review	To be determined
16	Final Exam	Review

Course Syllabus Addendum

Facility Closing Announcement

If any Ivy Tech Community College Region 9 facilities will be closed due to inclement weather or other emergency conditions, the closing will be announced on the radio and television stations listed below. Remember, even if College facilities remain open, you are expected to use your judgment as to whether the existing weather conditions permit safe travel. Notify your instructor if you do not attend class due to weather or other emergency conditions.

Below is the list of radio and television stations that will be contacted for facility closing announcements. Radio Stations: WKBV (AM 1490); WQLK (FM 96.1); WCNB (AM 1580); WFMG (FM 101.3); WMDH (AM 1550); WHON (AM 930); WIFE (FM 100.3); WKWH (FM 94.3), WCTW (AM 1550), WMDH (FM 102.5), Z93 (WGTZ FM 92.9), K99.1 (FM); Television Stations: Channel 7 WHIO (Dayton); Channel 2 WDTN (Dayton); Channel 22 WKEF (Dayton). Closings are also announced on the website, www.ivytech.edu/richmond/.

Certification/Licensure Training Disclaimer

Ivy Tech Community College of Indiana cannot guarantee that any student will pass a certification or licensing exam. Your success will be determined by several factors beyond the instruction you are given in the classroom including your test-taking skills, your willingness to study outside of class, and your satisfactory completion of appropriate practice exams. Certification and licensure exam questions are drawn from databases of hundreds of possible questions; therefore, a thorough understanding of the subject matter is required. The goal of Ivy Tech is providing a certification exam studies class is to assist you in understanding the material sufficiently to provide a firm foundation for your studies as you prepare for the exam.

Important Message for Pell Grant & Student Loan Recipients

If you withdraw from, or stop attending, all of your classes before 60% of the term has passed, you will owe money to the federal government and/or the College. In the event that this becomes necessary, see a student services advisor before you withdraw from classes or stop attending.

Instructor Initiated Revoke of Course Enrollment

Instructors may administratively withdraw a student from class enrollment for attendance and disciplinary issues with the approval of academic affairs. For attendance issues, the enrollment withdrawal may be initiated within the 60 to 75% time-period of the course. The registrar's office will notify the student if this action occurs.

Learning Resource Center

The Learning Resource Center (Rm. 132, Main Campus Building) is open to students when the Main Campus Building is open. Tutors are available: Monday – Thursday, 9:00 am – 7:00 pm; Friday 9:00 am – 5:00 pm; Saturday 9:00 am – 12:00 p.m.

Writing Across the Curriculum

Unless the instructor informs you otherwise, this class participates in the Writing Across the Curriculum program. All papers are required to meet professional standards in English composition. Specifically, all papers will:

- Be word processed in MLA or APA format, as designated by the instructor;
- Demonstrate professional writing through correct grammar and spelling;
- Demonstrate the development of a thesis using basic principles of composition.

Math and English Across the Curriculum

Ivy Tech Community College Region 9 participates in a statewide College initiative to assess math and English skills across the curriculum. For the first component of this project, students in MAT111 and ENG111 are assessed at the end of the academic term for math and English proficiency. From this assessment, a sample is identified as benchmark data. The second component of this assessment is comprised of students enrolled in selected program defined capstone courses. Sample data from this group will be compared to the benchmark for assessing retention of math and English competencies.

Library Services

Ivy Tech Community College Region 9 students have access and student use privileges for the Indiana University East (IUE) Library located in Hayes Hall on the Richmond IUE campus. In addition to the campus library services, the Ivy Tech Virtual Library is available to students on and off campus, offering full-text journals and books and other resources essential for course assignments. Go to <http://www.ivytech.edu/library/> and choose the Virtual Library Link for Richmond.

Academic Honesty Statement

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Director of Student Support and Development, Office of Disability Support Services, Ivy Tech Community College of Indiana Region 9, 2325 Chester Boulevard, Richmond, IN, 765-966-2656 ext. 334, for Disability Support Services. If you will require assistance during an emergency evacuation, notify your instructor immediately. Look for evacuation procedures posted in your classrooms.

Copyright

Material in this course is subject to protection of Copyright law.

Right of Revision

The course content is subject to change on syllabus/outline.