MATH I-110 Fundamentals of Algebra Course Policies

Course Materials: All students registered for Math I-110 will be billed through their bursar accounts for access to the e-text and online homework via Canvas and Pearson's My Lab Math. The e-text is a custom, electronic version of *Intermediate Algebra: Concepts and Applications, 11th Edition, Pearson Publishing* by Bittinger, Ellenbogen, and Johnson, ISBN 9780134497242. Students do not have to buy anything from the bookstore, as they will be automatically billed for the e-text and access to My Lab Math. To buy an optional print version of the textbook, visit https://www.pearson.com/store and search for ISBN 9780134499208

Prerequisites: ALEKS math placement score of 5 or greater within the last 12 months.

Canvas: Please check Canvas often for announcements, class notes, assignments, handouts, and other important information. If you miss a day of class, check this site to see what you missed.

My Lab Math: To access My Lab Math components (needed for e-text, online homework, and online quizzes), log into Canvas and click on **ACCESS PEARSON** in the canvas navigation on the left.

Course Description: This is a 4-credit hour refresher course in algebra intended for liberal arts and business majors. The course includes solving equations and inequalities, operations with polynomials, factoring, operations with rational expressions, solving rational equations, functions, and their graphs, solving systems of equations and inequalities, radical expressions, and functions, solving quadratic equations, quadratic functions, exponential and logarithmic functions, solving exponential and logarithmic equations and logic.

Future Math Courses: To register for Math M118, M119, 130/136, or Stat 301, you must receive a grade of C- or better in Math 110 or Math 111. Because Math M119 requires a greater understanding of Algebra, it is recommended that a student take M119 immediately after Math 110 and, if taking both, prior to Math M118. NOTE: To register for Math 153, you must take and pass Math 111 with a C or better or have an ALEKS placement score of 62 or greater taken within the last 12 months.

IU Indianapolis Campus-Wide Policies: Students are expected to read the IU Indianapolis policies on attendance, academics, and conduct within the first few days of classes, as some policies have early deadlines. You can find information on university-wide course policies related to attendance (administrative withdrawal, disabilities, emergency withdrawal, military service, religious holidays), academic policies (auditing a class, final exam scheduling, grade replacement, grade forgiveness, and pass/fail option), and conduct (academic integrity, academic misconduct, and code of conduct) in Canvas under the "Syllabus Supplement," "Campus Course Policies," and "IU Indianapolis Academic and Student Support Services" links.

COURSE STRUCTURE

Schedule: You will find the schedule for the semester with our Calendar in Canvas. Try your best to keep up with the schedule. Expect to carve out significant time blocks for work in this class several times each week. **CAREFUL TIME MANAGEMENT ON YOUR PART WILL BE NECESSARY FOR YOU TO DO WELL IN THIS CLASS.**

Technology: Students are allowed to **use only the TI-30Xa Scientific Calculator** (manufactured by Texas Instruments) on all quizzes and exams. **The use of any other calculator is prohibited**. The calculator cover must be removed and put away when taking an exam or quiz. Students must also put away any other electronic devices; this includes, but is not limited to, the following items: graphing calculators, cellphones and related devices, computers, smartwatches, and portable game systems during exams and quizzes.

Note: All tests, including the final exam, will be taken in the IU Indianapolis Testing (SL070) Center

GRADES

Your final grade will be based on the following weight distribution and scale. Grades are not calculated using total points.

Percent Weight	
My Lab Math Quizzes	10%
In Class Quizzes	10%
Active Learning	5%
Attendance	5%
4 Unit Tests	40%
Final Exam	30 %
Total	100%

Grades

100%-97% = A+, 96-93% = A, 92-90% = A-
89%-87% = B+, 86-83% = B, 82-80% = B-
79%-77% = C+, 76-73% = C, 72-70% = C-
69%-67% = D+, 66-63% = D, 62-60% = D-
below 60% F

MLM STUDY PLAN AND TESTING POLICIES

My Lab Math Quizzes (10%)

A study plan will be the basis for homework in this course. Students will practice and gain mastery points while working problems. Once enough mastery points are earned, a quiz for the sections that are covered will be open. Students get 3 attempts at each quiz and 1 hour to complete the quizzes. **At least two My Lab Math quizzes will be dropped.**

In-Class Quizzes (10%)

Quizzes will be given during class throughout the semester. **The two lowest quiz scores will be dropped.** No make-up quizzes will be given for any reason.

Active Learning (5%)

Active learning activities are designed to enhance your understanding of the course material through interactive and collaborative learning experiences. You will work closely with an undergraduate learning assistant who will facilitate group discussions, problem-solving sessions, and other engaging exercises. Participation in these activities is crucial for your success, as they provide opportunities to apply concepts in a practical setting and receive immediate feedback. Regular involvement and active participation are expected to maximize the benefits of these sessions. **Two active learning activities will be dropped.**

Attendance (5%)
Attendance is an essential part of your success in this course. Regular attendance is expected, and active participation during class sessions is highly encouraged. If you must miss a class, please inform the instructor in advance and provide any necessary documentation. Excessive absences may negatively impact your grade. Engaging in class activities and discussions not only enhances your learning experience but also contributes to a collaborative and dynamic classroom environment. **Four attendance grades will be dropped.**

5 Unit Tests (40%)
Five tests will be administered in the computer testing lab (SL 070) during scheduled times. Tests are designed to take about 75 minutes, but the time limit is set at 90 minutes to allow for downtime due to technical issues that may arise during computer testing. You may take each test only once. **One test will be replaced with your final exam percentage.**

Final Exam (30%)
The final exam is a 2-hour comprehensive computer test worth 200 points. The test period is scheduled for Saturday, December 13 and Monday, December 16 – Friday, December 20 and will be administered in the Testing Center (SL 070) during regular test center hours. Everyone must take the final exam; **your final exam score cannot be dropped.**

Study Plan Requirement: The MLM study plan must be completed, and all quizzes must be taken before the exam. Failure to do so will result in the exam not being accessible.

Test Lab Hours: The testing lab, located in SL 070, is open Monday through Friday 10 am to 6 pm Tests must be taken during the designated testing period by making a 60-minute reservation through Register Blast in Canvas (refer to the separate handout for detailed testing procedures). **NO WALK INS ARE PERMITTED** Testing ends promptly at the lab's closing time each day, regardless of when you begin your test.

Missed Test Policy: There will be no make-up tests. Any student who misses a test will receive a zero for that test. However, the lowest score from Tests #1-5 will be replaced with final exam percentage

Testing Center Surveillance System: Portions of this course may be subject to electronic proctoring. Video cameras may be used to monitor the room during tests, and recordings may be reviewed to investigate or support disciplinary actions. All use of video equipment and recordings will comply with applicable IU policies.

Extra Credit Opportunities
Students can earn up to 10 extra credit points throughout the semester from their instructor. These points can be applied to the following categories: My Lab Math Quizzes (10%), Active Learning (5%), or In-Class Quizzes (10%). Extra credit assignments will be announced periodically and may include activities such as attending relevant lectures, completing additional projects, or participating in class discussions. Extra credit is optional and not guaranteed.

OTHER IMPORTANT INFORMATION

Attendance and Administrative Withdrawal: An essential requirement of this course is that you will take part in all class meetings and conscientiously complete all required course activities and/or assignments. Students who miss more than half of the required activities within the first 25% of the course without providing the instructor with supporting documentation may be administratively withdrawn from the course. Administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full-refund period. If you are administratively withdrawn from the course, you will not be eligible for a tuition refund. If you have questions about the administrative withdrawal policy during the semester, please contact your instructor.

Late Withdrawal Date: The **last day to withdraw** from the course with an automatic grade of W for **Fall 2025** is ***Sunday October 26th*.** Withdrawing from the course requires advisor approval via the late drop/add classes link at one.iu.edu. Beginning, **Monday October 27th the** ability to withdraw will be approved only in serious, extenuating circumstances. These requests must be approved by the student's advisor, instructor, Chair or Associate Chair in Mathematics, and the School of Science Dean's Office. If you stop attending class without officially withdrawing by the last withdraw date, your grade will be an F for the course. If you find it necessary to withdraw from the course, we encourage you to first talk to your instructor or your advisor so that they can aid you in deciding what alternative options best fit your needs.

Academic Misconduct: The IU Code of Student Rights, Responsibilities, and Conduct states that students must uphold and keep academic and professional honesty and integrity; the code defines academic misconduct as any activity that tends to undermine the academic integrity of the institution. Therefore, students engaging in academic misconduct may receive penalties from their course instructor and disciplinary action from the university. Policies against academic misconduct apply to all course-, department-, school-, and university-related activities. Academic misconduct may involve human, hard-copy, or electronic resources and includes cheating, fabrication, plagiarism, interference, violation of course rules, and facilitating academic dishonesty. For definitions of these activities, visit studentcode.iu.edu/responsibilities/academic-misconduct.html. More information about the rights and responsibilities of IU students is available at studentcode.iu.edu/.

Incompletes: A grade of "Incomplete" (I) will only be given by the Department of Mathematical Sciences Grade of Incomplete Policy. An incomplete (grade of I) is only allowed for exceptional circumstances: the student must have a passing grade in 75% of the course work. Specifically, students must pass the 3/4 mark of the session to qualify for assigning an incomplete. The instructor must agree that an incomplete is right, and the Department of Mathematical Sciences' Associate Chair must approve the request.

Special Services: Students needing accommodation because of disability will need to register with Accessible Educational Services (AES) and complete the proper forms issued by AES before accommodation will be provided. The AES office is in Taylor Hall, UC 100. You can also reach the office by calling 317-274-3241.

Religious Holidays: IU Indianapolis respects the right of all students to take part in their religious holidays and will supply reasonable accommodation, upon request, for such observances. Students seeking accommodation for religious observances MUST give a request in writing to the course instructor by the end of the second week of the semester and should use the Request for Course Accommodation Due to Religious Observance Form. You may find the form, along with more information about the policy, at https://studentcentral.IU Indianapolis.edu/calendars/holidays/index.html. Failure to follow the university policy will result in no accommodation given later in the semester.

Student Engagement Roster: This semester, your instructor will be using the Student Engagement Roster (SER) to supply real-time feedback on your performance in this course. Periodically throughout the semester, the instructor will be entering data on factors such as your class attendance, participation, and success with coursework, among other things. This information will supply feedback on how you are faring in the course and suggest ways to improve your performance. Students can view their submitted SER data through the One.IU tile, Student Engagement Roster (Student).

Counseling And Psychological Services (CAPS): During the semester, if you find that life stressors are interfering with your academic or personal success, consider contacting Counseling and Psychological Services (CAPS). All IU INDIANAPOLIS students are eligible for individual counseling services at minimal fees. Group counseling services are free of charge. CAPS is in Walker Plaza, Suite 220 and can be contacted by phone (317-274-2548). For more information, see the CAPS website at https://studentaffairs.IU Indianapolis.edu/health/counseling-psychological/index.html.

LEARNING OBJECTIVES

Algebra Basics

Students will learn to evaluate and simplify algebraic expressions, perform operations with real numbers, and translate verbal expressions into algebraic form. They will learn to solve equations using basic principles, apply a five-step problem-solving strategy to real-world problems, and manipulate formulas while applying exponent rules.

Graphing and Functions

Students will learn to explore the concept of functions, including determining domains, identifying functions from relations, and interpreting ordered pairs. They will learn to graph both linear and nonlinear equations, find and interpret slopes and intercepts, determine relationships between parallel and perpendicular lines, write equations of lines from given information, and apply linear functions to model real-world situations.

Systems of Equations

Students will learn to solve systems of equations by graphing, substitution, and elimination. They will learn to determine if ordered pairs satisfy systems, translate and solve application problems involving two variables, work with matrices to represent and solve systems, and apply these concepts to business and economic models.

Inequalities

Students will learn to solve and graph linear inequalities in one and two variables, work with compound inequalities and interval notation, and translate real-world situations into inequalities. They will learn to apply inequalities to solve practical problems and graph systems of inequalities.

Polynomials and Factoring

Students will learn to add, subtract, and multiply polynomials, as well as evaluate polynomial functions. They will learn to factor polynomials using a variety of methods, including recognition of special products, and solve polynomial equations using factoring. They will learn to apply the zero-product property to real-world problems.

Radicals

Students will learn to simplify square roots, cube roots, and nth roots, and convert between radical and exponential notation. They will learn to multiply, divide, and rationalize radical expressions, simplify radical functions, and solve radical equations.

Quadratics

Students will learn to solve quadratic equations through factoring, square roots, and the quadratic formula. They will learn to graph quadratic functions, identify key features, and solve maximum and minimum problems. They will learn to interpret quadratic solutions in real-world contexts and use transformations to analyze graphs.

Exponential and Logarithmic Functions

Students will learn to examine one-to-one functions, find inverses, and evaluate compositions of functions. They will learn to rewrite exponential and logarithmic equations, solve them using various methods, and use properties of logarithms to simplify expressions. They will learn to apply exponential and logarithmic models

IU INDIANAPOLIS PROFILES OF LEARNING FOR UNDERGRADUATE SUCCESS (PLUS)

Communicator

- **Listens actively** through participation and engagement in class and group learning
- **Builds relationships** through group learning
- **Conveys ideas effectively** through stating solutions to problems, project summaries, and written responses

Problem Solver

- **Thinks critically** when exploring problem-solving strategies
- **Collaborates** in during group work
- **Analyzes, synthesizes, and evaluates** statements of problems

Innovator

- **Creates/Designs** mathematical models
- **Makes decisions** when evaluating the most appropriate model for a situation

Community Contributor

- **Respectfully engages own and other cultures** when working with peers from various cultural and mathematical backgrounds

Course Coordinator: All inquiries about this course and student/instructor rapport problems should be directed to the course coordinator **Kristen Weddington, kriswedd@iu.edu.**