



**Division:** LEARNING SKILLS  
**Course name:** LSK 10B – MATH FUNDAMENTALS B  
**Section:** 1352/Semester Spring 2015

**Instructor Name:** Mr. Tim Russell  
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### Welcome:

This semester, you will work to develop your algebraic computational skills through computer –assisted instructional activities. The skills you learn here will help you succeed both in and out of class. Your progress in this class will be charted according to content mastery, not hours spent at the computer! Please ask for assistance with any new concepts or rules so that you can maximize your time completing your lessons on Plato.

### Course Description:

An individualized, self paced mathematics class that continues from LSK 10A, focusing on beginning through intermediate algebraic concepts. This is a 1-unit class that helps students to develop basic algebraic competency skills through the use of a computerized learning system. Students’ complete tutorials, drills, and mastery tests in computerized modules; to receive credit, students must demonstrate completion of 70% mastery of course content measured by the mastery tests within each module.

### Course Requirements:

- Please be aware the **LSK CLASSES ENDS THE FIRST DAY OF FINAL EXAMS**, so weekly progress is calculated at 5% each week between week 2 and week 15. PLEASE PUT THE FOLLOWING DATES INTO YOUR CALENDAR SO THAT YOU DO NOT FALL BEHIND IN THE CLASS!
  - 20 % BY MIDNIGHT ON March 9, 2015
  - 40% BY MIDNIGHT ON April 6, 2015
  - 60% BY MIDNIGHT ON May 4, 2015
  - 70% OR HIGHER BY MIDNIGHT ON June 1, 2015

**COURSE CREDIT IS BASED ON MASTERY, NOT HOURS ON TASK! You must successfully complete 70% of course for credit AND must make weekly progress in this class. Weekly progress counts as class attendance, so you cannot wait until the end of the semester to complete the work in this class.**

Each of the computer-assisted PLATO courses has complete instructions on the opening screens. Please read these instructions carefully so that you know what you need to complete in each module. You must complete all lessons within a module before your percentage of mastery will reflect your progress! You may check your progress status at any time while you are logged into Plato by clicking on the “Assignments” tab at the top of the home page in Plato.

### Recommended Materials:

There is no required text for this class, but many students have found helpful to keep handy a notebook and a scientific calculator.

### Course-Level Student Learning Outcome:

Upon successful completion of this course, will be able to use basic algebraic concepts to solve quadratic equations by graphing and factorization.

### Program-Level Student Learning Outcomes:

1. Use basic math computational skills to solve quantitative problems in a variety of everyday and academic situations.

5. Develop thoughtful approaches and solutions to real and hypothetical problems.

### Institution-Level Student Learning Outcomes:

- **CRITICAL THINKING:** Analyze problems by differentiating fact from opinions, using evidence and sound reasoning to specify multiple solutions and their consequences.
- **QUANTITATIVE REASONING:** Identify, analyze, and solve problems that are quantitative in nature.
- **TECHNICAL COMPETENCE:** Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.

### Course Content:

In this class, you will complete the following modules, beginning with a Tutorial and ending with a Mastery Test. For each lesson, please complete the assessments, tutorial and mastery test. If you score less than 80 % on the mastery test you are required to go back to the tutorial before taking the mastery test again. Be sure to complete each assignment in order, following the "You Are Here" marker, which will guide you through the lesson in order. ***Don't worry if the login screen looks different from previous semesters for ple.platoweb or if the configuration of lessons this semester is slightly different than described here. Plato has merged with another educational software company and is adjusting the presentation of its material. The content you complete will be the same, but things might look a little bit different this semester!***

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## Course Outline

For each lesson, please complete the assessment, application and mastery test.

**Unit 1 – The Real Number System**

**Unit 2- Linear Equations and Inequalities**

**Unit 3 – Linear Equations in Two Variables**

**Unit 4- Exponents and Polynomials**

**Unit 5- Factoring**

**Unit 6 – Rational Expressions**

**Unit 7 – Relations and Functions**

**Unit 8- Systems of Linear Systems**

**Unit 9 – Inequalities**

**Unit 10- Radical Expressions**

**Unit 11-Inverse, Exponential, and Logarithmic Functions**

**Unit 12- Nonlinear Functions, Conic Sections and Nonlinear Systems**

### Class Policies:

#### Attendance

It is up to you to budget time for your computer-assisted coursework through Plato. All of our classes are now offered only in internet-accessible format, so it's up to you to budget your time and make these online classes work with your schedule and your ability level. Most importantly, remember that credit for this class is determined by content mastery, not by hours. If you find yourself unable to do the work in a class you enrolled in, please consult with a faculty member in Learning Skills as soon as possible to discuss other options!

### College Policies:

#### Academic Integrity (Plagiarism)

In accordance with code 9803.28, **academic dishonesty is prohibited and will not be tolerated in this class.** Violations of academic integrity include, but are not limited to, the following actions: cheating on an exam, plagiarism, **working together on an assignment**, paper or project when the instructor has specifically stated students should not do so, submitting the same term paper to more than one instructor, or **allowing another individual to assume one's identity** for the purpose of enhancing one's grade. Academic dishonesty of any type, such as cheating or knowingly furnishing false information, by a student provides grounds for disciplinary action by the instructor or college. In written work, no material may be copied from another without proper quotation marks, footnotes, or appropriate documentation. **AN ACT OF ACADEMIC DISHONESTY WILL RESULT IN ADMINISTRATIVE EXCLUSION FROM LEARNING SKILLS CLASSES AND SUSPENSION OF LEARNING CENTER PRIVILEGES**

#### Student Conduct

According to code 9803.15, disruption of classes or college activities is prohibited and will not be tolerated. Refer to the catalog and the Standards of Student Conduct in the Schedule of Classes for more information.

**For more information:** [http://www.wlac.edu/academics/pdf/WLAC\\_10-12Catalog\\_Policies.pdf](http://www.wlac.edu/academics/pdf/WLAC_10-12Catalog_Policies.pdf)

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## **PLATO INSTRUCTIONS:**

- BE SURE TO READ THE INSTRUCTIONS ON THE HOME PAGE OF YOUR PLATO CLASSES! IN PARTICULAR, BE SURE TO COMPLETE ANY PRE-TESTS WITHIN LESSONS.
  - THE PLATO SOFTWARE IS ADAPTIVE, SO THE PRE-TESTS ARE NECESSARY TO DETERMINE THE INDIVIDUAL LESSONS YOU NEED TO COMPLETE.
  - AS YOU ANSWER QUESTIONS CORRECTLY, YOU WILL BE “EXEMPTED” FROM WORKING ON THOSE SKILL SETS AGAIN; AS YOU MISS QUESTIONS, THE SOFTWARE TRACKS YOU INTO LESSONS TO BETTER EXPLAIN THE CONCEPTS SO YOU CAN MASTER THEM.
  - MANY STUDENTS WANT TO SKIP THE PRE-TESTS BECAUSE OF THEIR LENGTH, BUT COMPLETING THEM CAN EXEMPT YOU FROM MANY, MANY HOURS OF WORK BY GIVING YOU CREDIT FOR EVERYTHING YOU ALREADY KNOW!
  - **AFTER COMPLETING THE PRE-TESTS, BE SURE TO CHECK THE “EXEMPTIONS” COLUMN IN EACH MODULE - THIS IDENTIFIES THE LESSONS YOU DO NOT NEED TO COMPLETE, BASED ON THE RESULTS OF YOUR COMPLETED PRE-TEST! IF YOU DON’T PAY ATTENTION TO THIS FEATURE IN PLATO, YOU MAY DO MORE WORK THAN YOU NEED TO DO!**
  - YOU CAN CHECK YOUR PROGRESS BY CLICKING ON THE “ASSIGNMENTS” TAB AT THE TOP OF THE PLATO HOME PAGE – THE NEXT SCREEN SHOWS BOTH GREEN AND RED ICONS IN A COLUMN LABELED “REPORTS” → ONE TAB SHOWS YOU DETAILED INFORMATION, WHILE THE OTHER SHOWS YOU A SIMPLE GRAPH OF YOUR PERCENTAGE OF COURSE MASTERY. **THIS IS THE SAME REPORT FUNCTION WE USE TO CHECK YOUR PROGRESS EVERY WEEK, SO YOU CAN MONITOR YOUR PROGRESS THE SAME WAY!**
  - STEADY, CONSISTENT PROGRESS IS THE KEY TO SUCCESSFUL COURSE COMPLETION – **AIM FOR 5% PROGRESS PER WEEK, AND YOU WILL NEVER FALL BEHIND OR FAIL THE COURSE!**
  - IF AT ANY TIME YOU EXPERIENCE DIFFICULTIES LOGGING INTO PLATO OR COMPLETING LESSONS, CONTACT US AT THE CENTER IMMEDIATELY! AND, AS WITH ANY ACADEMIC COURSE THAT YOU ADD LATE, YOU ARE EXPECTED TO CATCH UP AND STAY CAUGHT UP!
  - **BE SURE TO CHECK YOUR STUDENT EMAIL REGULARLY** – OR SET IT UP TO FORWARD TO YOUR PERSONAL EMAIL ACCOUNT – BECAUSE WE WILL CONTACT YOU THROUGHOUT THE SEMESTER. CHECKING YOUR CAMPUS EMAIL IS LIKE HOMEWORK – FACULTY IN ALL OF YOUR CLASSES COUNT ON YOU TO DO IT REGULARLY - SEE INFO ON BACK SIDE OF THIS PAGE!
  - **THE LEARNING RESOURCE CENTER OFFERS MANY RESOURCES TO ASSIST YOU IN SUCCESSFULLY COMPLETING YOUR COURSES, AND WE INVITE YOU TO CONTACT US PERSONALLY FOR GUIDANCE AND SUPPORT! MY EMAIL ADDRESS, PHONE EXTENSIONS, AND CELL PHONE ARE PROVIDED AT THE FRONT OF THIS SYLLABUS TO ASSIST YOU IN CONTACTING ME! PLEASE CONTACT ME PERSONALLY IF YOU NEED ASSISTANCE OR ACADEMIC SUPPORT!**
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