

MATH 125S: #18570/18571

Intermediate Algebra with Support

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Course Description

This course is a study of the properties of real numbers, laws of exponents, radicals, equations & inequalities in linear and quadratic form, system of equations, matrices, graphing in two variables, rational expressions & equations, complex numbers, conic sections & their graphs, exponential and logarithmic functions.

Prerequisite: none

Basic Course Information

Instructor: Kristin Webster, Phd (Dr. Webster)

Class Meetings: MTW 10:10am - 11:45pm and Workshop Th. 10:10 – 11:10 via Zoom

Office Hours: Tu & Th 7:45 – 10:05am and Th 11:15 am – 12:05 pm via Pronto

Final Exam: Tuesday, December 14, 2021, 9:30 - 11:30 am

Instructor Contact Info:

Email: webstek@laccd.edu , Canvas email or Pronto private message.

LIFE IS A MATH EQUATION.
IN ORDER TO GAIN THE MOST,
YOU HAVE TO KNOW HOW TO
CONVERT THE NEGATIVES
INTO POSITIVES.

Zoom Classroom Policies:

- It's important that we all treat one another with respect and kindness in Zoom, just as we would in person. For any misconduct, I will report the incident to LATTC's disciplinarian.
- These Zoom sessions are a great opportunity for us to interact, discuss, and learn together, and I'm looking forward to these meetings together!

Attendance Policy: Only students who have been admitted to the college and are in approved active status may attend classes. Attendance is strongly recommended and graded. There are no make-ups for missed class activities, tests or late assignments. Students are responsible for announcements made in class in their absence including changes made to assignments or test dates.

Students should attend every meeting of all classes for which they register. To avoid being dropped from class, students should contact the instructor via email when they are absent for emergency reasons.

An instructor may exclude a student who is absent for more hours than the class meets per week or 20% of the total class hours. In this class, students will be dropped for missing 4 consecutive Zoom meetings or 5 total Zoom meetings. In addition, an instructor may equate three or more late arrivals or early departures from class as an absence for purposes of class attendance. **Please Note: Students who are pre-registered in a class and miss the first meeting may lose their right to a place in the class.**

Students are responsible for dropping a class that they stop attending. If the class is not dropped, the student may receive an "F" in that class and be responsible for enrollment fee. Any drops or exclusions that occur between the 4th week and the 12th week will result in a "W" on the student's record. Drops are not permitted beyond the 12th week. A grade ("A", "B", "C", "D", "F", "INC", "P", or "NP") will be assigned to students who are enrolled past the 12th week even if they stop attending class. For further details, refer to "W" section of "Grading Symbols and Definitions."

Textbook: OpenStax Intermediate Algebra 2e

<https://openstax.org/books/intermediate-algebra-2e/pages/1-introduction>

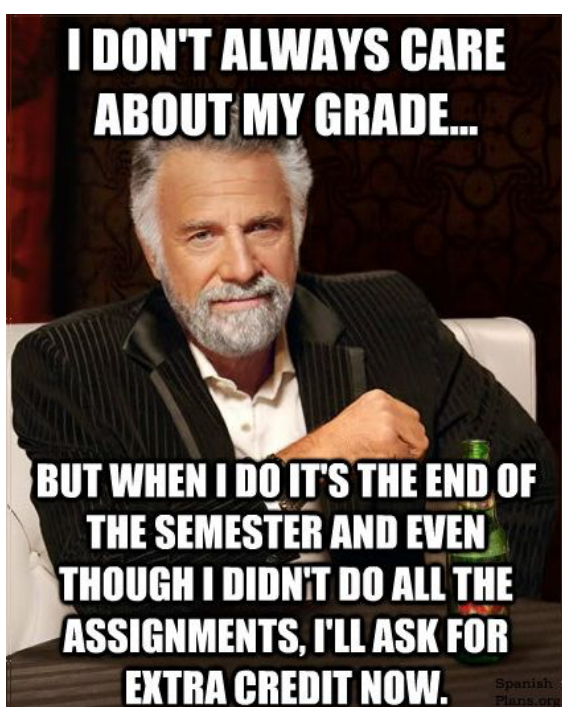
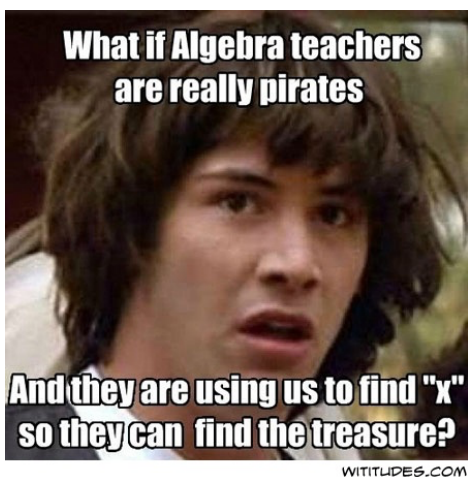
Required Course Materials: Paper, Pen/Pencil, **TI30XS Multiview Calculator - 4 Lines.** Some type of device that enables you to upload documents or photos, such as a scanner or cell phone camera.

Mathematics

MAY NOT TEACH US HOW TO
ADD LOVE OR MINUS HATE. BUT
IT GIVES US EVERY REASON TO
HOPE THAT EVERY PROBLEM
HAS A SOLUTION.

QuotesIdeas.com

Assignments:



1. **Homework** - Assignments will be posted on Canvas and on the Syllabus. Students are expected to complete ALL assigned problems but homework will not be graded or collected. Completion of the Homework is essential to success in other class activities.
2. **Weekly Quizzes** – There will be quizzes held weekly, usually Mondays during class time. Consult Canvas for the quiz schedule. It will be a 10-20 minute quiz consisting of material from the previous weeks' homework. All work must be shown and uploaded to Canvas. The lowest quiz score will be dropped.
3. **Discussion Boards** – You will be required to complete weekly discussion boards which include a response to a prompt and also responding to at least two of your classmates. There will be a specific rubric posted for each discussion board based on the post requirements.
4. **Attendance** – Zoom meetings are required and quality of attendance will be graded. In order to get full credit, you must attend AND participate. There are up to 2 points per class for attendance and participation. A rubric will be posted on Canvas. Attendance grades will not be given on test days. Attendance will also be required and graded for Wednesday Workshops.
5. **Tests** – 5 Chapter tests will be held periodically through the semester. Test dates will be posted on Canvas and are subject to change. **Tests are worth 100 points each. No makeups permitted.** You must log into ZOOM and are subject to monitoring during your test time.
6. **Final Exam:** Tuesday, December 14, 2021, 9:30 - 11:30 am

Points:

Discussion Boards	140 Points
Tests (Best 4 out of 5)	400 Points
Final Exam:	200 Points
Quizzes:	140 Points
Attendance:	88 Points
Thursday Workshop Attendance:	52 Points
Total:	1000 Points

Grading Scale:

If your total is at least:	Your grade is:
900 Points	A
800	B
700	C
600	D
Less than 600	F

List of Topics:

- Linear Equations and Inequalities in One Variable
- Inequalities and Problem Solving
- Linear Equations in Two Variables
- Systems of Linear Equations
- Exponents and Polynomials
- Factoring Polynomials
- Rational Expressions
- Functions
- Radicals, Radical Functions and Radical Exponents
- Quadratic Equations and Functions
- Exponential and Logarithmic Functions
- Sequences and Series
- Conic Sections

Student Learning Outcomes

Upon completion of the course, a student will be able to:

1. The student will be able to define and manipulate nonlinear and linear functions and relations.
2. The student will be able to solve a variety of nonlinear equations, e.g. logarithmic, inverse, quadratic equations, absolute value, rational.
3. The student will be able to create, analyze, and interpret graphs of linear and nonlinear relations.
4. The student will be able to apply algebraic skills to a variety of applications such as: growth and decay, logic, reasoning, geometry, optimization, quadratic applications (motion, mixture, and work).

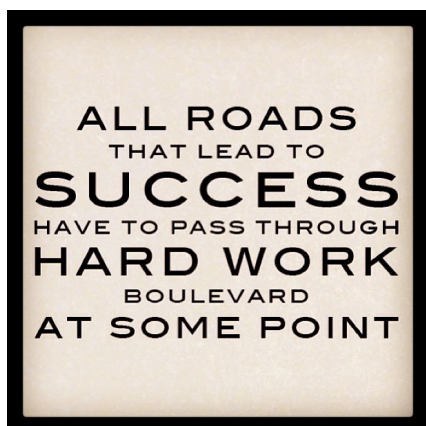
How I see math word problems:



If you have 4 pencils and I have 7 apples, how many pancakes will fit on the roof? Purple, because aliens don't wear hats.

more awesome pictures at THEMETAPICTURE.COM

Tips for Success



1. Students should plan on spending at least 8-12 studying and practicing problems outside of class.
2. It is never enough in math to only be able to get the answers. You must also work at understanding the underlying concepts as well.
3. Find resources on the internet to help you understand. Khan Academy on YouTube has a ton of great videos of all the algebra topics.
4. Work in (virtual) groups whenever possible. This gives you opportunities to discuss and explain and get insights from your peers.
5. Ask questions from your instructor or a tutor.

Frequently Asked Questions

1. *Is there extra credit?*

Nope. Please don't ask. There are already "extra points" worked into the grading scheme. No additional opportunities will be offered.

2. *I missed class, can I make up the test (assignment, quiz, etc.)?*

No. Sorry. No make ups allowed. There is a bit of wiggle room already built into the grading policy.

3. *I did the homework but I am (insert excuse here, sick, having internet trouble, etc.), can I hand it in late?*

No. There are no late assignments accepted. If you cannot upload the assignment to Canvas under the assignments, you may email it to webstek@lacc.edu or upload it through the Canvas inbox. I recommend uploading your assignment as soon as it's done so that you have time to troubleshoot tech issues.

Student Resources:

- NetTutor is 24 hour online tutoring help provided for multiple subjects for LACCD students through Canvas. Click on the “NetTutor” link on our Canvas page to access the service.
- Tutoring is also provided via Academic Connections.

Office Hours for LATTC Online Tutoring Services

- Monday - Thursday from 9:00a.m. - 6:00p.m.
- Friday 9:00a.m. - 2:00p.m.
-

[View Our Tutoring Schedule](#)

Click here to register or for more info:

<http://www.lattc.edu/services/academic/academic-connections>

Additional Information

Disclaimer: Syllabus/Schedule subject to change.

Academic Honesty Policy: Violations of academic integrity of any type by a student provide grounds for disciplinary action by the instructor or college. 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. For more information on the Standards of Student Conduct refer to the college catalog available in hard copy and online at <http://www.lattc.edu>.

Disability Support Services (DSS) Accommodation: Students with disabilities who seek academic accommodations should first promptly contact the Disabled Students Programs and Services (DSPPS) office, Mariposa Hall, Room 100, (213) 763-3773,

- Email DSPPSLATTC@LATTC.EDU to make a request for accommodations. For more information, please refer to LACCD Administrative [Regulation E-100](#) (“Criteria for Serving Students with Disabilities”).
- <http://www.lattc.edu/services/support/dsps/students-rights-and-responsibilities>

COURSE SCHEDULE AND ASSIGNMENTS – FALL 2021 – MATH 125S (Subject to Change)		
Date	Sections	Homework (EOO = Every Other Odd)
Mon. 8/30/21	- Syllabus Overview - Chapter 1 Review – part 1	
Tues. 8/31/21	Chapter 1 Review – part 2	Chapter 1 Review Exercises #385-485 EOO
Wed. 9/1/21	2.1 Use a General Strategy to Solve Linear Equations 2.2 Use a Problem Solving Strategy	Section 2.1 Exercises #1-71 odd, 73, 74 Section 2.2 Exercises #83-163 odd
Thurs. 9/2/21	Workshop on Chapter 1 and word problem strategies.	
Tues. 9/7/21	2.3 Solve a Formula for a Specific Variable 2.4 Solve Mixture and Uniform Motion Applications 2.5 Solve Linear Inequalities	Section 2.3 Exercises #165 - 237 EOO Section 2.4 Exercises #243 - 289 odd Section 2.5 Exercises #297-365 EOO
Wed. 9/8/21	2.6 Solve Compound Inequalities 2.7 Solve Absolute Value Inequalities	Section 2.6 Exercises #377 - 429 odd Section 2.7 Exercises #435-493 odd
Thurs. 9/9/21	Chapter 2 Review	
Mon. 9/13/21	3.1 Graph Linear Equations in Two Variables 3.2 Slope of a Line	Section 3.1 Exercises #5 - 69 EOO Section 3.2 Exercises #73-149 odd
Tues. 9/14/21	3.3 Find the Equation of a Line 3.4 Graph Linear Inequalities in Two Variables	Section 3.3 Exercises #155-231 EOO Section 3.4 Exercises #237- 275 odd
Wed. 9/15/21	3.5 Relations and Functions 3.6 Graphs of Functions	Section 3.5 Exercises #283 - 331 odd Section 3.6 Exercises #337 - 385 odd
Thurs. 9/16/21	Chapter 3 Review Workshop	
Mon. 9/20/21	Chapter 2 & 3 Review & Catchup	

Tues. 9/21/21	Chapter 2 & 3 Test	
Wed. 9/22/21	• 4.1 Solve Systems of Linear Equations with Two Variables • 4.2 Solve Applications with Systems of Equations	Section 4.1 Exercises #1-65 EOO Section 4.2 Exercises #73-121 EOO
Thurs. 9/23/21	Chapter 4 Workshop	
Mon. 9/27/21	• 4.3 Solve Mixture Applications with Systems of Equations • 4.4 Solve Systems of Equations with Three Variables	Section 4.3 Exercises #127 - 159 odd Section 4.4 Exercises #163 - 193 odd
Tues. 9/28/21	• 4.5 Solve Systems of Equations Using Matrices • 4.6 Solve Systems of Equations Using Determinants	Section 4.5 Exercises #197 - 229 odd Section 4.6 Exercises #233 - 275 odd
Wed. 9/29/21	• 4.7 Graphing Systems of Linear Inequalities • 5.1 Add and Subtract Polynomials •	Section 4.7 Exercises #281 - 325 EOO Section 5.1 Exercises #1-75 odd
Thurs. 9/30/21	Chapter 4 Workshop part 2	
Mon. 10/4/21	• 5.2 Properties of Exponents and Scientific Notation • 5.3 Multiply Polynomials	Section 5.2 Exercises #81 - 173 odd Section 5.3 Exercises #179 - 277 EOO
Tues. 10/5/21	• 5.4 Dividing Polynomials	Section 5.4 Exercises #289 - 333 odd
Wed. 10/6/21	• Chapter 4 & 5 Review & Catchup	
Thurs. 10/7/21	• Chapter 4 & 5 Review Workshop	
Mon. 10/11/21	Chapter 4 & 5 Test	
Tues. 10/12/21	• 6.1 Greatest Common Factor and Factor by Grouping • 6.2 Factor Trinomials	Section 6.1 Exercises #1-55 odd Section 6.2 Exercises #61 - 153 odd
Wed. 10/13/21	• 6.3 Factor Special Products • 6.4 General Strategy for Factoring Polynomials	Section 6.3 Exercises #159-227 odd Section 6.4 Exercises #233 - 271 odd

Thurs. 10/14/21	Chapter 6 Workshop	
Mon. 10/18/21	• 6.5 Polynomial Equations • 7.1 Multiply and Divide Rational Expressions	Section 6.5 Exercises #277 - 333 odd Section 7.1 Exercises #1-69 odd
Tues. 10/19/21	• 7.2 Add and Subtract Rational Expressions • 7.3 Simplify Complex Rational Expressions	Section 7.2 Exercises #75 - 145 odd Section 7.3 Exercises #151 - 193 odd
Wed. 10/20/21	• 7.4 Solve Rational Equations	Section 7.4 Exercises #197 - 249 odd
Thurs. 10/21/21	Chapter 7 Workshop	
Mon. 10/25/21	• 7.5 Solve Applications with Rational Equations • 7.6 Solve Rational Inequalities	Section 7.5 Exercises #253 - 333 EOO Section 7.6 Exercises #339 - 373 odd
Tues. 10/26/21	Chapter 6 & 7 Review & Catchup	
Wed. 10/27/21	Chapter 6 & 7 Test	
Thurs. 10/28/21	Word Problems Workshop	
Mon. 11/1/21	• 8.1 Simplify Expressions with Roots • 8.2 Simplify Radical Expressions	Section 8.1 Exercises #1- 49 odd Section 8.2 Exercises #55 - 107 EOO
Tues. 11/2/21	• 8.3 Simplify Rational Exponents • 8.4 Add, Subtract, and Multiply Radical Expressions	Section 8.3 Exercises #119 - 161 odd Section 8.4 Exercises #175 - 240 EOO
Wed. 11/3/21	• 8.5 Divide Radical Expressions • 8.6 Solve Radical Equations	Section 8.5 Exercises #245 - 281 odd Section 8.6 Exercises #287 - 347 EOO
Thurs. 11/4/21	Chapter 8 Workshop	
Mon. 11/8/21	• 8.7 Use Radicals in Functions • 8.8 Use the Complex Number System	Section 8.7 Exercises #351 - 403 odd Section 8.8 Exercises #409 - 477 odd

Tues. 11/9/21	• 9.1 Solve Quadratic Equations Using the Square Root Property • 9.2 Solve Quadratic Equations by Completing the Square	Section 9.1 Exercises #1- 65 EOO Section 9.2 Exercises #75 - 109 odd
Wed. 11/10/21	• 9.3 Solve Quadratic Equations Using the Quadratic Formula • 9.4 Solve Quadratic Equations in Quadratic Form	Section 9.3 Exercises #113 - 151 odd Section 9.4 Exercises #155 - 191 odd
Thurs. 11/11/21	Veteran's Day Holiday – NO workshop	
Mon. 11/15/21	• 9.5 Solve Applications of Quadratic Equations • 9.6 Graph Quadratic Functions Using Properties	Section 9.5 Exercises #195 - 225 odd Section 9.6 Exercises #229 - 287
Tues. 11/16/21	• 9.7 Graph Quadratic Functions Using Transformations • 9.8 Solve Quadratic Inequalities	Section 9.7 Exercises #293 - 357 EOO Section 9.8 Exercises #363 - 389 odd
Wed. 11/17/21	• Chapter 8 & 9 Review & Catch-up	
Thurs. 11/18/21	Chapter 8 & 9 Review Workshop	
Monday. 11/22/21	• Chapter 8 & 9 Test	
Tuesday. 11/23/21	10.1 Finding Composite and Inverse Functions 10.2 Evaluate and Graph Exponential Functions	Section 10.1 Exercises #1 - 61 EOO Section 10.2 Exercises #65 -121 odd
Wed. 11/24/21	10.3 Evaluate and Graph Logarithmic Functions 10.4 Use the Properties of Logarithms	Section 10.3 Exercises # 127 - 211 EOO Section 10.4 Exercises #219 - 283 odd
Thurs 11/25/21	No Workshop – Thanksgiving Holiday	
Mon. 11/29/21	• 10.5 Solve Exponential and Logarithmic Equations • 11.1 Distance and Midpoint Formulas; Circles	Section 10.5 Exercises #289 - 353 odd Section 11.1 Exercises #1 - 47 odd
Tues. 11/30/21	• 11.2 Parabolas • 11.3 Ellipses	Section 11.2 Exercises #53 - 93 odd Section 11.3 Exercises #99- 137 odd
Wed. 12/1/21	• 11.5 Solve Systems of Nonlinear Equations	Section 11.5 Exercises #189 - 217 odd

Thurs. 12/2/21	Chapter 10 & 11 Review Workshop	
Mon. 12/6/21	• Chapter 10 & 11 Review & Catch-up	
Tues. 12/7/21	• Chapter 10 & 11 Test	
Wed. 12/8/21	• Final Exam Review	
Thurs. 12/9/21	• Final Exam Review Workshop	
Tuesday. 12/14/21	FINAL EXAM 9:30 -11:30 am	

Important Dates

Fall 2021: Traditional Semester

Session Period	August 30 - December 19
M-F Classes Begin	August 30
Sat Classes Begin	September 4
Applications Accepted Beginning	Now
Finals	Dec 13 – Dec 19 (See Finals Schedule)

Last Day To/For

Recency Petitions	Deadline to enroll
Third Attempt Petitions	Deadline to enroll
Prerequisite Clearance/Challenge Petitions	Deadline to enroll
Add	Online: Aug 31- Sep 12 with permission number from instructor
Audit	Begin accepting on Sept 13
File Pass / No Pass	Sept 12
Drop without fees or get a refund	Sept 12
Drop without a "W"	Sept 12
Drop with a "W"	Nov 21
Grades Due	Dec 28

NOTE: Short-term courses and other accelerated program classes have different deadlines. **Please check your student information portal for drop dates and deadlines.**

Fall Semester 8-Week 1 August 30 - October 24

Fall Semester 8-Week 2 October 25 - December 19

Fall 2021: Holidays/Campus Closed

Labor Day	September 6
Veteran's Day	November 11
Thanksgiving	November 25-26
Non-Instructional Days (College open)	November 27-28, December 20-23, 25-26 & 28-29, January 1 & 2
Winter Holiday	December 24, 27, 30-31, January 3