

College Algebra

INT 1055 College Algebra

Course Overview

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Credit Hours: 3hrs

Course Description

A brief review of concepts of algebra followed by a study of equations and inequalities; polynomial and rational functions and their graphs; solutions to polynomial equations; exponential and logarithmic functions; and systems of equations and inequalities.

Learning Outcomes

By the end of this course, you will be able to:

1. Solve a vast array of equations and inequalities
 2. Read, identify, and interpret graphical representations of problems, equations, and information
 3. Explain and use functions and function notation
 4. Interpret and solve real-world problems with well-structured mathematical methods
 5. Apply well-structured analytical methods to learn – in any discipline – by constructing a systematic edifice of knowledge and concepts.
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Instructor Information

Name: Rebecca Wakeman

Contact Information: rwakeman@campusedu.com

Bio:

Resources

Algebra for Life (course materials)

Selected Khan Academy videos

zyBooks, Algebra

Course Outline

Note: If you have had significant experience with algebra previously, you may choose to go straight to the third chapter so that you can go deeper into the subject. You should especially consider this option if you plan to continue with additional math in college. Feel free to consult the professor.

PRIMER A: ALGEBRA AT THE STORE			
Title	Type	Duration	Points
Read and Watch	Input	1hr	--
zyBooks Homework	Completion	2hrs	20
Pre-quiz part 1	Quiz	1hr	--
	Totals	4hrs	20

PRIMER B: ALGEBRA IN THE KITCHEN			
Title	Type	Duration	Points
Read and Watch	Input	1hr	--
zyBooks Homework	Completion	2hrs	20
Quizzes	Quiz	1hr	30
	Totals	4hrs	125

MODULE ONE: ALGEBRA ON THE ROAD			
Title	Type	Duration	Points
Read and Watch	Input	4hrs	--
Discussion Forum	Discussion	2hrs	25
Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Graphing Calculator	Submission	1hr	20
Road Trip	Submission	3hrs	30
	Totals	16hrs	125

MODULE FOUR: ALGEBRA AROUND THE HOUSE			
Title	Type	Duration	Points
Read and Watch	Input	4hrs	--
Discussion Forum	Discussion	2hrs	25
Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Systems of Equations	Quiz Problems	3hrs	30
The Chicken Coop	Submission	2hrs	20
	Totals	17hrs	125

MODULE FIVE: ALGEBRA ON THE BASEBALL DIAMOND			
Title	Type	Duration	Points
Read and Watch	Input	4hrs	--
Discussion Forum	Discussion	2hrs	25

Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Problem Set	Quiz	3hr	50
	Totals	15hrs	125

MODULE SIX: ALGEBRA AT THE AMUSEMENT PARK			
Title	Type	Duration	Points
Read and Watch	Input	4hrs	--
Discussion Forum	Discussion	2hrs	25
Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Rational Escape Room	Quiz	1hr	50
	Totals	15hrs	125

MODULE SEVEN: ALGEBRA AT THE BANK			
Title	Type	Duration	Points
Read and Watch	Input	4hrs	--
Discussion Forum	Discussion	2hrs	25
Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Kingdom Investing	Quiz	1hr	50
	Totals	15hrs	125

MODULE EIGHT: ALGEBRA IN A PANDEMIC			
Title	Type	Duration	Points

Read and Watch	Input	4hrs	--
Discussion Forum	Discussion	2hrs	25
Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Module Quiz	Quiz	1hr	50
Totals		15hrs	125

The following modules are for those who skipped one or more of the first two modules. You must complete eight consecutive modules.

MODULE NINE (optional): ALGEBRA AT CONIC LAND			
Title	Type	Duration	Points
Read and Watch	Input	5hrs	--
Discussion Forum	Discussion	2hrs	25
Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Graph it!	Submission	2hrs	50
Totals		15hrs	125

MODULE TEN (optional): ALGEBRA IN THE DECK			
Title	Type	Duration	Points
Read and Watch	Input	5hrs	--
Discussion Forum	Discussion	2hrs	25
Q & A Session	Discussion	1hr	10
zyBooks Homework	Completion	5hrs	40
Final Quiz	Quiz	2hrs	50
Totals		15hrs	125

Live Sessions

This course has live meetups for Q & A, typically one hour every other week. If you cannot attend, you can recoup the points for the session by watching the recording and submitting a 300-word summary/response. Since these sessions will be audio-visually recorded, those who participate with their camera engaged are agreeing to have their video, image, or voice recorded.

Grading

Discussions: 280 points

Homework: 320

Assessments: 400 points

Course Grading Scale

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

Policy/Procedures

Disability Statement

At Trevecca Nazarene University, we strive to make learning experiences as accessible as possible. If you anticipate or experience barriers based on disability, please contact Disability Services at 615-248-1463 or email disabilityservices@trevecca.edu to establish reasonable accommodations. Disability Services is located in the Bud Robinson Building, lower level. Trevecca Nazarene

University complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, as amended by the ADA Amendments Act of 2008.

Academic Honesty Statement

Academic honesty is expected of all students at Trevecca Nazarene University. It is an integral part of the educational process where learning takes place in an atmosphere of mutual trust and respect. Each student is responsible to maintain high standards of academic ethics, personal honesty, and moral integrity.

Dishonest academic behavior as described in the following list will be dealt with fairly and firmly.

1. *Plagiarism*, using another's statements or thoughts without giving the source appropriate credit; this includes patchwork plagiarism; no more than 20% of any paper should be direct quotes (unless otherwise specified by the instructor);
2. *Cheating on an exam*; this not only encompasses copying from another student but includes receiving help in completing an exam from any unauthorized source or in any unauthorized manner;
3. *Resubmitting graded assignments*; self-plagiarism;
4. *Submitting for credit a borrowed or purchased paper* (e.g. life learning paper, prior-learning documentation worksheet, summary paper, etc.);
5. Defacing or unauthorized removal of course materials either from the classroom or library;
6. *Falsifying documentation* in regard to the reporting of course reading;
7. *Falsifying attendance* for class or other academic event;
8. *Falsifying other documentation*;
9. Submitting and using instructional materials, instructor resources, and faculty guides *as your own work*;
10. *Identity Fraud* Additionally, any student that gives current or prior assignments to another student for the purpose academic dishonesty (examples included above)

is subject to disciplinary action through the Office of Student Development. Students should never share completed assignments unless authorized by the instructor.

Withdrawal from Courses and Withdrawal from the University

A student withdrawing from a course will receive a grade of W if the withdrawal is initiated between the last day to register and add classes and the last day to drop a class with a W. After that published date, students who withdraw will receive a grade of F unless they appeal to the school dean who schedules the course, in which case a W may be approved for extenuating circumstances. If the student withdraws from any course without following the proper procedure with the Office of Academic Records, the grade in the course will be recorded as F or U. The last date to add or drop this course and is the 7th day of class, and the last day to withdraw from this course with a "W" on a student's transcript is the 14th day of class. The last day to receive a refund is the 7th day of class. No refund will be provided after day 8 of the class.

Prior to the last day to withdraw for the semester, if a student has substantially failed to work on the course, the student may be automatically withdrawn from the course. After the last day to withdraw from the semester, if the student has still not worked significantly on the course, the student will still fail the course.

Classroom Recordings Policy

Faculty members are permitted to video and/or audio record class sessions provided that recordings are posted in a secure environment and are only available to students registered for the course. Students who have a qualifying disability are also allowed to record class sessions for their personal study only. Information contained in the recorded lecture is protected under federal copyright laws and may not be published without the consent of the instructor. As video and/or audio of students may be captured as a part of the recording, it is also a Family Educational Rights and Privacy Act (FERPA) violation to share classroom recordings. Lectures/class sessions recorded for any reason may not be shared with anyone who is not a registered participant of the course or appropriate employee of Trevecca or Campus.

Title IX Policy

Trevecca Nazarene University is committed to providing an environment free from all forms of sex discrimination. As an instructor, one of my responsibilities is to help foster a safe learning environment on our campus. This means that I have a

reporting responsibility related to my role. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in any one-on-one meetings.

I will seek to keep information you share private to the greatest extent possible. However, I am required to share information regarding sexual harassment and other sexual misconduct with the Title IX Office. Students may speak to someone confidentially by contacting the Counseling Center at 615-248-1346.

CAMPUS EDU PRIVACY POLICY

<https://www.campusedu.com/privacy-policy>