

College Algebra

Survey of Mathematics MATH100

Course Overview

MATH100 Survey of Mathematics

Credit Hours: 3hrs

Course Description

This is a survey course covering various topics from different branches of and applications of mathematics. The course seeks to give students an appreciation of the breadth and depth of mathematics and also to introduce practical applications of mathematics that are relevant to being a global citizen. The course will also examine the relationship between mathematics and faith. Topics may include, set theory, statistics, voting theory, probability, geometry, consumer mathematics, logic, number theory and graph theory.

Learning Outcomes

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

1. Solve problems by thinking logically and analytically.
2. Formulate and test hypotheses, rigorously justify conclusions.
3. Construct valid mathematical arguments.
4. Apply analytical reasoning to abstract and applied problems.
5. Communicate solutions of problems, both verbally and in writing.
6. Articulate the relationship between mathematics and Christian faith.

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: The two Primers below likely review prior learning you have had. In a perfect world, you would simply take the quizzes and start the substance of the course. However, don't feel bad if you need a little review. The review will pay off in the rest of the course.

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
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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 TWO: 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 THREE: 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 FOUR: 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 FIVE: 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 SIX: 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

MODULE SEVEN: 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 EIGHT: 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

95-100 A (Excellent)	75-78 C (Satisfactory)
92-94 A-	72-74 C-
89-91 B+	69-71 D+
85-88 B (Good)	65-68 D (Passing)
82-84 B-	62-64 D-
79-81 C+	Below 62 F (Below Min. Standards)

Policy/Procedures

ACADEMIC DISHONESTY STATEMENT

Campus courses maintain a strict policy concerning academic dishonesty, which includes cheating, plagiarism, assisting on an examination or paper when expressly forbidden by the instructor, and any other practices that demonstrate a lack of academic integrity.

Cheating occurs whenever a student uses deception to avoid fulfilling the specific requirements of an assignment or course and/or to receive a higher grade than they might otherwise receive. Using artificial intelligence software (such as ChatGPT) to generate writing and pass it off as one's own is also considered cheating. Plagiarism occurs when a student appropriates passages or ideas from someone else's writing into their own without providing proper documentation and/or without using quotation marks to indicate when they are directly quoting a source. It is the student's responsibility to know and adhere to principles of academic honesty. A student found guilty of academic dishonesty will be subject to academic sanctions ranging from failure on the assignment to failure in the course to, in cases of repeated or flagrant violation, suspension, or dismissal from participation in Campus courses. For additional repercussions, consult the academic catalog <https://jessup.edu/academics/registrar/academic-catalog/>

DROP PERIOD AND WITHDRAWAL

The Drop period for Campus courses is five days after the student has enrolled and their designated term has begun. No refund will be available after this point.

Although many Campus classes are technically self-paced, students will be provided with a pacing guide (when relevant) to assist them in knowing how best to complete their courses on time. **Failure to log in during the first week after their course commences will result in automatic removal from the course.**

If a student is significantly behind pace two-thirds of the way through their term, they are encouraged to withdraw from the course with a W or equivalent appearing on their transcript. Beyond that point, they will no longer be eligible for a W on their transcript and thus are in danger of receiving a failing grade. Campus will report persistent failure to participate to the transcribing college or university. After the two-thirds point, a student will receive a letter grade for the course, including the possibility of a failing grade.

INCOMPLETE GRADE

A temporary neutral mark "I" is given at the discretion of an instructor when, for a legitimate reason, a student cannot complete course requirements in a given semester. Apart from catastrophic circumstances, a student is not eligible for an incomplete if they have not completed at least 60% of their coursework for the semester. Typical instances might be an extended illness or an inability to complete the coursework because of extenuating circumstances. A contract between the instructor and the student will

accompany this grade to indicate the nature of the work to be completed. An Incomplete Grade (I) should not be used as an alternative to a grade of F. An Incomplete Grade must be made up before the seventh week of the next term whether or not the student is subsequently enrolled with Campus or the university. If the grade is not made up by the deadline, it will be changed to the appropriate grade earned in the course at that point.

DISABILITY STATEMENT

In accordance with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act, the Jessup Disability Support Services office (DSS) provides eligible students with a variety of individualized, reasonable accommodations. These accommodations are intended to assist college students with disabilities in having equal access to regular college programs and activities. Accommodations are determined individually for each student through an interactive process and are based on functional limitations resulting from a documented disability. Within 3 years (i.e., recent), verifiable documentation must be provided by a medical doctor or appropriately licensed professional.

Approved accommodations will be provided for students who present their instructor with a copy of their Faculty Notification Letter (issued by DSS).

For more information, please visit the Disability Support Services website.

Disability Support Services Contact Information:

Jessup Disability Support Services

(916) 577-2253

dss@jessup.edu

LIBRARY RESOURCES

You will receive information from the university on how to access library resources. Here is a link to online resources: <https://jessup.edu/library/>

CREDIT HOUR POLICY - EXPECTATION OF WORK

In compliance with federal regulations (34CFR 600.2), Campus requires its courses to require a total workload of at least 2250 minutes per credit hour for the typical student. This workload may be comprised of time allocated to direct faculty-student interaction, assigned readings, independent or group assignments, expected study time, or other course-related activities as appropriate to the specific course and determined by the faculty of record.

GRADE APPEALS

In the case of a grade appeal, the student shall be considered to have an authentic grievance when he/she can demonstrate his/her grade for a course has been adversely affected due to certain actions by a faculty member. A grade appeal shall be initiated within ten (10) working days after receipt of the grade or after the beginning of the next academic semester. This period may be extended by the chief academic officer of the transcribing college or university on petition from the student(s) involved. For complete information about Jessup and how to file a complaint as a student please see the [Consumer Information section of the Jessup website](#).

If a distance education student who lives outside the state of California believes that the university's internal procedures have not adequately addressed concerns identified under the Program Integrity Rule, there is a link on the Jessup website with [Student Complaint Information by State and Agency](#).

CAMPUS EDU PRIVACY POLICY

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