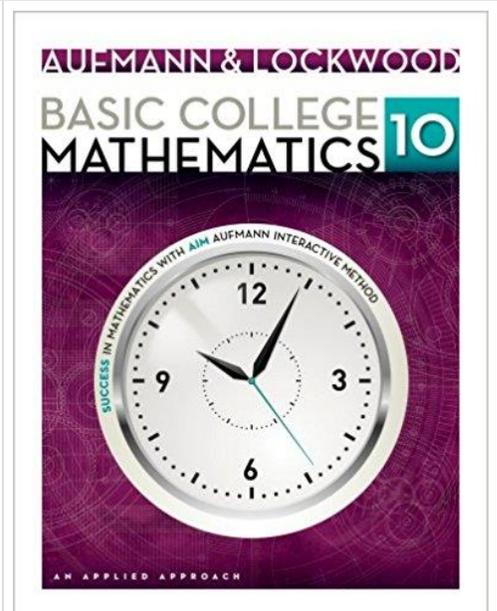


	Central Christian College of Kansas
Code:	NS-MA 201
Title:	Survey of Contemporary Mathematics
Credits:	3
Prerequisites:	No
Description:	This course includes a broad survey of math topics including (but not limited to) algebra, logic, geometry, functions, graphs, and probability. The historical and cultural aspects of math as well as its importance to modern society are also studied.

Upon successfully completing this course, students will be able to:

- Employ critical-thinking skills through mathematical reasoning (Fit Mind)
- Assess mathematical models and their applicability to queries (Fit Mind)
- Describe how math applies to social and cultural interactions (Fit Heart)
- Demonstrate proficiency in applying mathematical models to life conditions encountered outside the classroom (Fit Body)
- Discuss the nature of order and stability in creation (Fit Soul)
- Defend the faithfulness of God (Fit Soul)

Aufmann, R. N., Lockwood, J. (2013) *Basic College Mathematics: An Applied Approach* (10th ed.). Boston, MA: Brooks Cole.



Topic	Chapters Covered	Assignments
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Number Operations	<u>Basic College Mathematics</u> Chapter 1 – Whole Numbers Chapter 2 – Fractions Chapter 3 – Decimals	Pre-test Plagiarism Certification Discuss Chapter 1, 2, & 3 Apply
Topic	Chapters Covered	Assignments
Ratios, Proportions, and Percent's	<u>Basic College Mathematics</u> Chapter 4 – Ratio and Proportions Chapter 5 – Percent's	Discuss Chapter 4 & 5 Apply
Topic	Chapters Covered	Assignments
Mathematical Application for Business and Consumers	<u>Basic College Mathematics</u> Chapter 6 – Application for Business and Consumers	Discuss Chapter 6 Apply
Topic	Chapters Covered	Assignments
Statistics, Probability, and Converting units of measure	<u>Basic College Mathematics</u> Chapter 7 – Statistics and Probability Chapter 8 – US Customary Units of Measurement	Discuss Chapter 7 & 8 Apply
Topic	Chapters Covered	Assignments
Rational Numbers and Algebra	<u>Basic College Mathematics</u> Chapter 10 – The Rational Numbers Chapter 11 – Introduction to Algebra	Discuss Chapter 10 & 11 Apply
Topic	Chapters Covered	Assignments
Geometry	<u>Basic College Mathematics</u> Chapter 12 – Geometry	Discuss Chapter 12 Apply Post-test

Assessments Number Points Each Total

Discussion	6	25	150
Apply Assignments	11	58	638
Cumulative Tests	2	101	202
Pre-test	1	5	5
Post-test	1	5	5
Total			1000

Students are expected to post in the discussion board a minimum of three separate posts and three separate post dates per discussion thread. The three posts for each thread must include:

- One "initial" post in response to the instructor’s question (or stated assignment) no later than Thursday of each course week.
- Two "follow up" post in response to at least one classmate by Sunday of each course week.

The initial response to a discussion question should substantively demonstrate familiarity with the content of the question. The response should be 150-200 words in length. To ensure the discussion is a collective and focused exploration of the topic in the question, the discussion thread should remain focused on the question.

The timing of responses is important since other students are dependent on your postings in order to fully develop the discussion and to post "follow up" discussion entries. Responses should occur in the week the discussion question is posted for reply. Preparation for the response is encouraged to ensure a thoughtful and well-founded contribution to the discussion.

Each learner is expected to both respond initially (by Thursday each week) to the discussion question or assignment instruction posted by the instructor/facilitator each week and make at least two follow-up responses to other learners' postings in the discussion thread by the end of the week (Sunday at 11:59pm). The purpose is to ensure an informed and thoughtful dialogue focused on the topic.

Initial Response (Standard Posting Requirements)

0 Points	1-2 Points	3-4 Points	5 Points
No initial response posted.	Initial response is superficial (less than 100 words), and/or posted after Thursday at 11:59 p.m. CT.	A substantive initial response is posted prior to Thursday at 11:59 p.m. CT that contains 100-149 words.	A substantive initial response is posted prior to Thursday at 11:59 p.m. CT that includes at least 1 reference to course material or another reliable source (150 words or more).

Initial Response (Quality of Content)

0 Points**1-2 Points****3-4 Points****5 Points**

Response is irrelevant to the question and does not add to the intent of the discussion.	Response addresses the question, but lacks depth or goes off topic.	Response addresses the question, though greater reflection or development of thought would be helpful.	Response addresses the question, is reflective, and represents a substantive contribution to the discussion.
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Follow-Up Posts**0 Points****1-2 Points****3-4 Points****5 Points**

No follow-up posts made.	Follow-up posts do not provide sufficient analysis or synthesis of the discussion.	Follow-up posts demonstrate an appreciation for the input of others and add to the discussion.	Follow-up posts elaborate on the comments of others and add to the discussion with further analysis and synthesis.
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Mechanics**0 Points****1-2 Points****3-4 Points****5 Points**

Posts lack any organization and/or contain multiple errors in spelling or mechanics.	Posts are somewhat organized, but interrupted by significant errors in spelling and mechanics.	Posts could benefit by a bit more organization and attention to mechanical details.	Posts are clear and formatted in a way that is easy to read, free from spelling and mechanical errors.
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Frequency of Participation**0 Points****1-2 Points****3-4 Points****5 Points**

No participation in discussion.	All posts made on the same day.	Posts made on 2 different days.	Posts made on 3 (or more) different days.
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Apply

There are 11 application assignments in this course. Each assignment is worth 58 points. These are designed so you apply the knowledge and skills you learn during the week.

Pre/Post-Tests

There is a pre and a post test in this course. The pre-test is scheduled for the first week of classes. The post test is scheduled for the last week of classes. While the actual score for both the pre and the post test do not get configured into your grade, you will earn 5 participation points for the submission of each. The pre and post tests should be taken seriously as they provide important feedback on your learning outcomes. This information is used to continuously improve the course.

Cumulative Tests

There are two cumulative tests in this course. One test will be in Week 3 and the other will be in Week 6. Each test will be cumulative which means that it will cover all of the material that you have learned up to that point, so the Week 6 test will include material that you covered over the entire 6 weeks. The tests will be timed, therefore knowing the material before you take the test will be very important. Some people believe that since this is an online class, they can simply just open their books and figure things out along the way. Many times, it takes just as long to figure out a problem as it would have been to learn it in the

first place. Plus, by studying ahead of time, you can do what you know first, and then use the remainder of your time (and your book) to figure things out.

Final Exam

The Cumulative Test in Week 6 will cover all content that you have covered in this course, so it will suffice as your final exam.