



15800 Calvary Rd.  
Kansas City, MO 64147

# Syllabus

Course: MA241-CUA (Blended) College Mathematics I  
Credit: 3 Semester Hours  
Semester: Fall 2019, Sept 2 – Dec. 20  
Time: 1:00-3:00 P.M.(MT), Monday, Colorado University Academy (livestream)  
Instructor: Dr. Tom Bonine; telephone: 816-331-8607, email: tombonine@juno.com

## I. DESCRIPTION

This course is a study of the basic concepts of mathematics, including historical development, skills in the use of numbers, the structure of the number system, and theory of mathematical operations.

*\*This is a blended class, meaning that both campus and online students take this class together. Campus students attend the classes in person, online students attend the classes via the online classroom. All interaction and assignments for campus and online students are done in the online classroom.*

## II. OBJECTIVES

General competencies to be achieved. The student will:

Gain an understanding of mathematical concepts, processes, and procedures. (MoStep 1.1.1) (Program Learning Objective 1, Assignments: 2.2, 5.7, 6.4)

Realize mathematics is a gift from God that should be mastered and appreciated. (Program Learning Objective 3, Assignments 3.2 & 3.6)

Experience effective approaches to teaching/learning mathematics. (MoStep 1.2.1) (Program Learning Objective 3: Assignments 2.3, 2.4, 5.8, 6.3)

Specific competencies to be achieved. The student will:

Study the branches of mathematics that will be useful in teaching elementary mathematics. (MoStep 1.1.1, 1.2.1) (Program Learning Objective 1: Assignments 5.2, 5.4, 5.5)

*Our Mission: ...to prepare Christians to live and serve in the church and in the world according to the Biblical worldview.*

Develop skills in mathematical computations. (MoStep 1.1.1) (Program Learning Objective 2, Assignments 6.4 & 6.6)

Acquire some mathematical problem-solving skills. (MoStep 1.1.1) (Program Learning Objective 2, Assignments 2.4 & 3.5)

### III. REQUIREMENTS

Complete the even and odd exercises for each topic covered in chapters 2-6 of the textbook. Show all of your work on your completed assignment pages. After completing a topic, grade your work using the answer key in the back of the textbook and the answers provided in the exercises worked in the lesson videos. If some of your answers are incorrect and you do not know why, write a statement on your homework telling me which problems you did not understand. If you understand why you missed some of the homework problems, write a statement on your homework saying "I understand the problems I missed". If your homework does not show how you got the answer, you will not receive credit for the homework. If you submit "homework" with just the answers to the questions, you will receive a "zero" for a grade.

Take five exams.

### IV. METHODS

Each Monday of the 16 week semester, students will participate in a livestream classroom where two math topics (2.1 & 2.2 on Sept. 9) will be taught. Students will complete all assigned exercises (odd & even) for each topic and upload their homework to Canvas on Tuesday and Thursday of each week. At the end of each chapter, students will complete a chapter practice test by watching an online video and working the assigned practice test problems. Students will also complete a multiple-choice exam covering each chapter. Exams will be proctored on the Colorado Campus or by special arrangement when necessary.

### V. MATERIALS

Bello & Britton, Topics in Contemporary Mathematics.  
Cengage Learning Co., 2005, 8<sup>th</sup> edition, ISBN #0618347526.  
Cost: new hardcover \$155  
Ajith Fernando, editor. ESV Global Study Bible. Crossway Bibles, Oct. 2012. ASIN: B009NL7244. Cost: \$1

### VI. GRADING

Assignments 40%  
Examinations 60%

### VII. ATTENDANCE REQUIREMENTS

Class session attendance will be recorded in Canvas under the Attendance heading. Online

students will be marked present after they watch the Monday class session video and send an email to the instructor (tombonine@juno.com) telling him what was learned from watching the class session video. Class session videos can be found under the heading Pages in Canvas. Two absences will lower your course grade one letter grade. Four absences will lower your course grade two letter grades. Six absences will lower your course grade three letter grades. Arriving late to class or leaving early will be marked as tardy. Three times tardy equals one absence.

## VIII. TENTATIVE CLASS SCHEDULE

<u>WEEKS</u>	<u>TOPICS</u>
1-2	Sets, 2.1-2.4
3-4	Logic, 3.1-3.4
5-6	Logic, 3.6 & Numeration, 4.1-4.2
7-8	Numeration Systems, 4.3-4.5
9-10	Number Theory, 5.1-5.4
11-12	Real Numbers, 5.5-5.8
13-14	Equations & Inequalities, 6.1-6.3
15-16	Quadratic Equations & Variation, 6.4-6.6

- The Bible is a required textbook in every course at Calvary University. To facilitate academic level study, students are required to use for assignments and research an English translation or version of the Bible based on formal equivalence (*meaning that the translation is generally word-for-word from the original languages*), including any of the following: New American Standard (NASB, English Standard Version (ESV), New King James (NKJV), or King James (KJV). Other translations and versions based on dynamic equivalence (*paraphrases, and thought-for-thought translations like NLT and NIV*) may be used as supplemental sources. Please ask the professor if you have questions about a particular translation or version.
- Students with disabilities have the responsibility of informing the DSS Director ([dss@calvary.edu](mailto:dss@calvary.edu)) of any disabling condition that may require support.
- *Plagiarism is defined as copying any part of a book or paper without identifying the author. This also includes taking another person's ideas and presenting them as your own.*
- The Clark Academic Center ([learning@calvary.edu](mailto:learning@calvary.edu)), is dedicated to providing free academic assistance for all CU students. Student tutors aid with all facets of the writing process, tutor in various subject areas, prepare students for exams and facilitate tests. Please take advantage of this service.