



Syllabus

Course: MA100D&DN (Blended) College Mathematics I
Credit: 3 Semester Hours
Semester: Fall 2020, Cycle 2, Aug. 17-Oct. 9
Time: 8:00-11:00 A.M., Thursday, E.Ed. Room 105-106
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), (STEM Learning Objectives 1, 5), (Assignments: 2.2, 5.7, 6.4)

Realize mathematics is a gift from God that should be mastered and appreciated. (STEM Learning Objective 4), (Assignments 3.2 & 3.6)

Experience effective approaches to teaching/learning mathematics. (MoStep 1.2.1) (STEM Learning Objective 1), (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) (STEM Learning Objective 1), (Assignments 5.2, 5.4, 5.5)

Develop skills in mathematical computations. (MoStep 1.1.1), (STEM Learning Objectives 1, 5), (Assignments 6.4 & 6.6)

Acquire some mathematical problem-solving skills. (MoStep 1.1.1), (STEM Learning Objectives 1, 5), (Assignments 2.4 & 3.5)

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

III. REQUIREMENTS

Complete the even and odd exercises for each topic covered in chapters 2-6 of the textbook. Show 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 this statement on your homework, "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.

Submit your homework to Canvas with a screenshot, a scan upload, or one of the many homework uploading programs.

Take five exams (chapters 2,3,4,5,6). You may use notes when you take the exam, but you are not allowed to use the textbook. If you do not take the exam on campus during the scheduled class session, you must use ProctorU to take the exams in this course. The ProctorU Addendum (attached to this syllabus) gives details, costs, and equipment requirements.

IV. METHODS

Each day of the 8-week cycle, students will watch a lesson video and complete the assigned exercises for that lesson (there are 33 lessons). Each Monday we will meet from 8am – 11am in E.Ed. Room 105-106 to preview the upcoming assignments, answer questions, and complete the chapter exams (one exam for each chapter). Class time will be used to proctor exams, explain difficulties, work exercises, answer questions related to the topics in the textbook, and preview the upcoming assignments.

V. MATERIALS

Bello, Kaul, & Britton, Topics in Contemporary Mathematics.
Brooks/Cole, Cengage Learning Co., 2014, 2008, 10th edition, ISBN #9781133107422.
Cost: new hardcover \$199 (required)

Ajith Fernando, editor. ESV Global Study Bible. Crossway Bibles, Oct. 2012. ASIN:
B009NL7244. Cost: \$1 (recommended)

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 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 are uploaded to Canvas on Monday afternoon, and can be found on Canvas under the heading "Pages". One absence will lower your course grade one letter grade. Two absences will lower your course grade two letter grades. Three absences will lower your course grade three letter grades. Four absences will result in a failing grade for the course. Arriving late to class or leaving early will be marked as tardy. Three times tardy equals one absence. Absences can be "made up" by watching the class session video and sending an email summary to the instructor (tombonine@juno.com).

VIII. TENTATIVE CLASS SCHEDULE

<u>WEEK</u>	<u>TOPICS</u>
1	Sets, 2.1 - 2.4
2	Logic, 3.1 - 3.4
3	Chapter 2 Exam; Logic, 3.5 - 3.6; Numeration 4.1-4.3
4	Chapter 3 Exam; Numeration Systems, 4.4 - 4.5; Number Theory 5.1-5.2
5	Chapter 4 Exam; Number Theory, 5.3 - 5.7
6	Number Theory 5.8; Equations & Inequalities 6.1-6.3,
7	Chapter 5 Exam; Quadratic Equations/Variation 6.4-6.6 .
8	Chapter 6 exam.

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) 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), 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.

ProctorU Addendum

Calvary University uses ProctorU test proctoring service. ProctorU is a live online proctoring service that allows you to take your exam from the comfort of your home. ProctorU is available 24/7, however, **you will need to schedule your proctoring session at least 72 hours in advance to avoid any on-demand scheduling fees.** Creating a ProctorU account is simple. You can do so by going to <https://go.proctoru.com/students/users/new?institution=2045>.

Students must read all information and comply with all directions below to be successful for their proctored exam experience. Calvary University hopes that students will have a smooth experience, and to decrease student anxiety and increase success, please use this guide to help you plan for your test. Please note that, per ProctorU, there will be penalties for students who miss their testing window. Technical trouble will not be an excuse for missing the window. Therefore, pay attention to all details within this guide, and all links included.

System Requirements: Please see the information below supplied by ProctorU for system requirements. If your computer does not have these capabilities, please consider borrowing a computer as you will still be required to complete the exam using the live proctor system with ProctorU. Please note that you will not be able to take your exam(s) in the Calvary University

Library due to the activity that will be picked up in a public place.

In order to use ProctorU, you will need a high-speed internet connection, a webcam (internal or external), a Windows or Apple Operating System, and a government issued photo ID. ProctorU recommends that you visit <https://test-it-out.proctoru.com/> prior to your proctoring session to test your equipment. They recommend you click on the button that says “connect to a live person” to fully test out your equipment. If using Firefox, please make sure that you are using the current version of your Firefox browser and have downloaded the ProctorU extension available at <https://www.proctoru.com/firefox>.

Type	Minimum	Recommended	Calvary University Minimum
Web Camera	640×480 resolution	1280×720 resolution	1280×720 resolution
PC Users	Windows Vista	Windows 10 (10 S is not supported)	same
Mac Users	OS X 10.5 or higher	OS X 10.13 High Sierra	same
Internet Download Speed	.768 Mbps	1.5 Mbps	3 Mbps
Internet Upload Speed	.384 Mbps	1 Mbps	2 Mbps
RAM	1024 MB	2 GB	same
Ports	1935, 843, 80, 443, 61613, UDP/TCP	1935, 843, 80, 443, 61613, UDP/TCP	same

- Desktop computer or laptop (not a tablet, Chromebook or cell phone).
- Webcam and microphone (built-in or external) – test your webcam at <https://test.webrtc.org/>
- Connection to network with sufficient internet speed: at least 3 Mbps download speed and 2 Mbps upload – test internet speed at www.speedtest.net
- Operating systems: Windows Vista or newer, Mac OS X 10.5 – or newer
- Browser with pop-up blocker disabled: Google Chrome v39 or later, Mozilla Firefox v34 or later.

Additionally, please visit and review the test-taker resource center by going to <https://www.proctoru.com/proctoru-live-resource-center>. You should expect the startup process with the proctor to take about 10-15 minutes. However, this time will not affect your exam time. Please feel free to direct any questions to the student support team via the live chat within your account.

******If you have any questions or concerns, contact Proctor U’s technical support team**

24/7 via their live chat support at <https://www.proctoru.com/contact-us>

Costs for ProctorU exams are listed below and are payable to ProctorU at the time of the test. These costs assume that a student will schedule their exam at least 72 hours in advance of the exam start time:

- 60 minutes or less - \$8
- 61 – 120 minutes - \$10
- 121 – 180 minutes - \$12

For those not scheduling an exam at least 72 hours in advance, late scheduling charges are added in addition to the above fee structure. There are two options for late scheduling:

- "Take It Soon" allows a test to be scheduled less than 72 hours but more than 24 hours before the desired start time. This option includes an additional fee of \$8.00. (Total cost for a 60 minute exam scheduled as "Take It Soon" would be \$16.)
- "Take It Now" allows a test to be taken on-demand with no appointment needed. This option includes an additional fee of \$12.00. (Total cost for a 60 minute exam scheduled as "Take It Now" would be \$20.)

These options are for the convenience of the examinee. Any charges applicable to the examinee must be paid with a credit or debit card. The test taker will be required to enter payment information on a secure page connected to a third-party card processor. The page is encrypted and secure and ProctorU does not see or store any credit card data.

Examinees will be required to re-enter payment information each time new charges are incurred.